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July 15th, 1954

History and Performance of Salt Creek Oil Field Carneros Pool Unit, Kern County, California

Abstract

The Salt Creek Carneros Pool Unit is located in Kern County, California. It produces from the Carneros sand of Lower Miocene age at approximately 2,400 feet. It is a complicated fault block reservoir characterized by dips as high as 30° and sand thicknesses varying from 0 to 222 ft. Approximately 1½ years of development resulted in sixty-three producing wells on 4.4 acre spacing. The pool was unitized October 1, 1948, 2½ years after discovery and gas injection was started in December of 1948.

Average reservoir pressure dropped from 1,230 psi to 580 psi before gas injection was initiated. Since then the pressure has increased gradually to 625 psi. By January 1, 1954, the Unit had produced 10,693,748 barrels of oil which represents 282 barrels per acre foot. Dry gas from a small fault block to the south of the oil reservoir was used to supplement produced gas for injection. The depletion of this source has necessitated purchase of outside gas. Cumulative injection is 15,182,000 reservoir barrels less than the reservoir barrels produced.

Unitization and pressure maintenance have resulted in control of gas-oil ratios allowing the maximum benefits from gravity segregation. Injection has minimized irregular water encroachment, thereby taking advantage of a natural water drive without serious by-passing of producible oil.

By
Holmes Miller
Intex Oil Company

Introduction

The Salt Creek field is located approximately 20 miles northwest of Taft in Western Kern County, California, as shown in Figure 1. It lies principally in Sections 17 and 20, Township 29 South, Range 21 East, M. D. B. & M. The report is submitted as a history of the field to January 1, 1954. No attempt will be made to predict the future or the benefits that may be derived from unitization. It will deal only with the Carneros sand as it has been exploited within the Carneros Pool Unit.

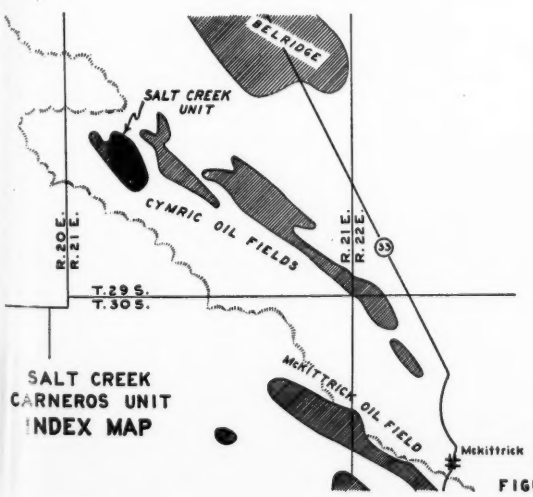

FIGURE-1

PLEISTOCENE		TULARE
PLIOCENE		ETCHEGOIN
MIOCENE	MOHNIAN	ANTELOPE-McDONALD
	LUISIAN-RELIZIAN	DEVILWATER-GOULD
	SAUCESIAN	MEDIA
		CARNEROS SAND
		UPPER SANTOS
	ZEMORRIAN	LOWER SANTOS
		PHACOIDES SAND
		SALT CREEK
EOCENE		KREYENHAGEN
		POINT OF ROCKS SAND

SALT CREEK CARNEROS UNIT
STRATIGRAPHIC COLUMN FIGURE-2

Geology

The Carneros is a lower Miocene sand of Saucesian stage and is the only producing sand in the Carneros Unit. A small amount of production has been obtained from the Phacoides in the vicinity but none has been found as yet within the unit area. The deepest wells have penetrated the Eocene into the Point of Rocks sand. The normal sedimentary sequence is shown in Figure 2. The Oligocene Oceanic sand has been truncated to the east of the unit by the basal Miocene unconformity. The unconformity at the base of the Middle Miocene probably truncates the Media Shale in places on the western side of the area. The Etchegoin is present only in the northeastern part of the field.

Structurally, the Salt Creek field is fairly complicated. It is an anticlinal nose plunging to the southeast and bisected by numerous faults making it in reality a fault block reservoir. Closure is also effected by the pinch out of the Carneros sand. Figure 3 shows the structure contour on top of the sand and the faults effecting the accumulation. Figure 4 shows an east west cross section through the center of the field. There is as much as 880 feet of closure in the main fault block and dips are as high as 30 degrees.

The north trending fault on the west of the field has a displacement of approximately 250 feet and forms a seal on the high side of the structure. Paralleling this and approximately 300 feet to the east is a second fault which forms a pressure barrier between a narrow productive block and the main producing block. To the north, the reservoir is bounded by a thrust fault trending northeast and by edge water at 2,100 feet sub-sea. The eastern boundary is a normal fault striking northwest and also edge water at 2,050 feet sub-sea.

The oil producing blocks are bounded on the south by a normal fault striking northeast and by the pinch out of the Carneros sand. South of the fault is a small dry gas block closed by the pinch out to the southwest and by a water table at 2,020 feet sub-sea.

Development

The field was discovered by Intex Oil Company Temblor No. 2 on March 8, 1946, which flowed initially 430 barrels per day of 17° API gravity oil. Rapid development followed this discovery throughout 1946 and 1947 until a total of sixty-three producing wells had been completed. Three of these were gas wells in the dry gas block at the south end of the field. Only two wells required pumping equipment upon completion. Thirteen dry holes delineate the productive area. This high percentage of failures is indicative of the complexity of the structure.

There are approximately 270 oil productive acres developed on 4.4 acre spacing. The dry gas block contains approximately 44 acres with three wells. Wells depths vary from 2,150 to 3,000 feet depending upon structural position. Sand thicknesses vary from 0 to 222 feet with an average of approximately 130 feet.

The majority of the wells were completed with 7-inch casing cemented on top of the Carneros after penetrating the entire pay section. Slotted liners were hung through the sand. Nine wells were completed with 7 inch combination strings. Gravel packed liners were used in ten wells and five wells were completed through gun perforated casing.

Unitization

Negotiations towards unitization were started early in the development life of the field. Much credit is due the managements of the various companies for their efforts and persistence in finalizing the Unit October 1, 1948, only 2½ years after discovery and a year after development had been completed.

The following tabulation shows the companies participating in the Unit:

Intex Oil Company, Richfield Oil Corporation, Oceanic Oil Company, Standard Oil Company of California, The Superior Oil Company, The Texas Company, Union Oil Company of California.

Prior to unitization, voluntary allocation of oil production and restriction of high gas-oil ratios were practiced by the individual operators. Allocation was based upon preliminary estimates of oil sand volumes.

By the time the unit was consummated, there were only eighteen flowing wells. Nine wells were shut-in because of high gas-oil ratio and one was flooded out by water. The remaining had been placed on the pump. As of the first of 1954, three wells were still flowing and four pumpers had been returned to a flowing condition due to proximity to injection. Seven wells were shut-in because of high gas-oil ratios, four had been converted to injection wells and four wells were flooded out by water.

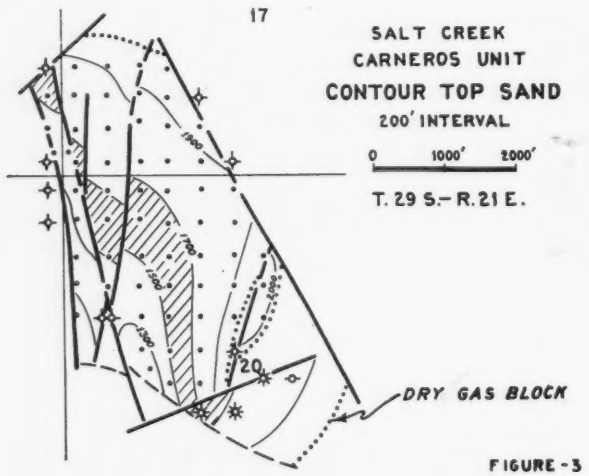

FIGURE-3

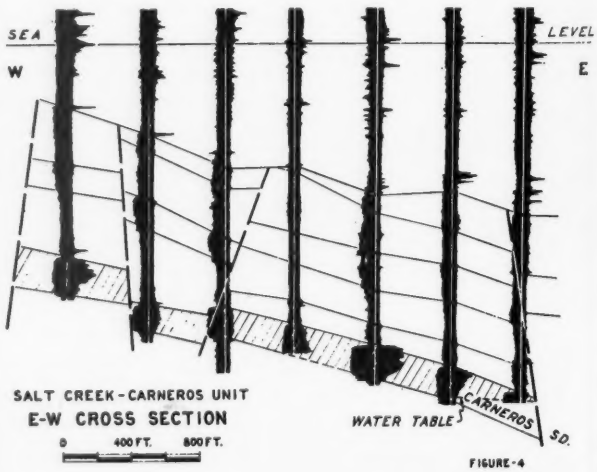

FIGURE-4

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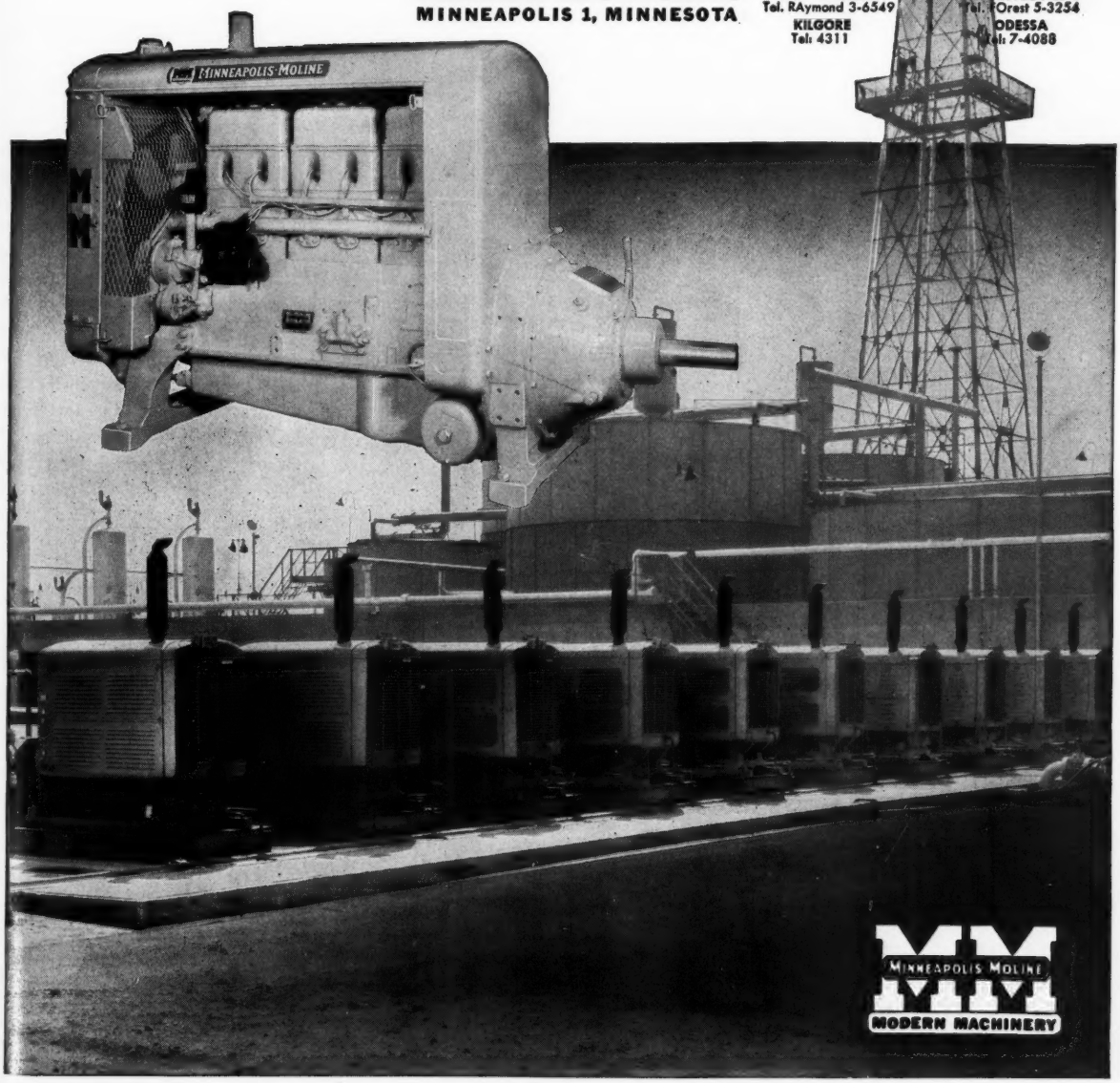


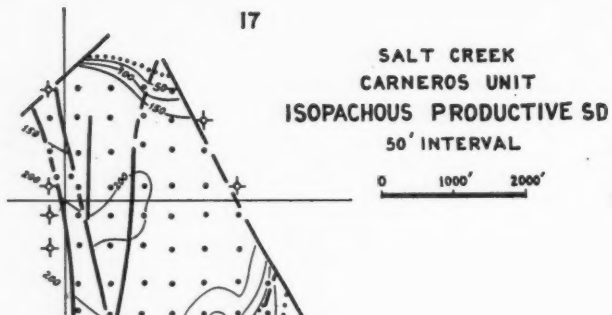


FIGURE-5

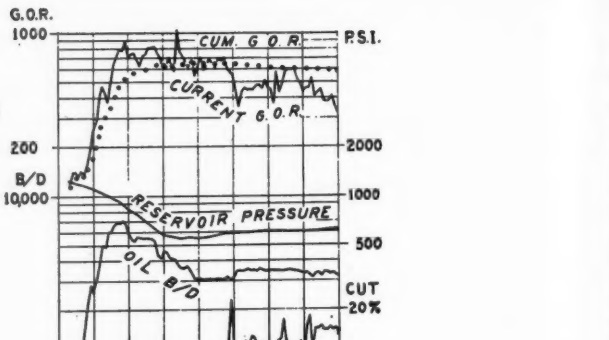


FIGURE-6

The prime purpose of unitization was to initiate gas injection for pressure maintenance. Two compressors were installed and gas injection was started in the latter part of December, 1948. Carneros gas contains only 0.22 gallons of casing head gasoline per MCF, consequently, a liquid recovery system is not practical. The two 300 H.P. compressors have a capacity of 2750 MCF per day. All produced gas is returned to the reservoir, and until recently, makeup gas was obtained from the dry gas block to the south. All gas is scrubbed and metered to the various injection wells at prssures varying from 600 to 1,000 psi. Injection pressures do not appear to have increased materially.

Unitization made it possible to effect several changes in facilities. Tank batteries were consolidated, thereby reducing the number of tanks required. Lead lines were rearranged to allow blending to the highest crude gravities. All pumping units and facilities were electrified. These changes reduced repair costs, minimized the personnel necessary to handle the field work, and conserved gas needed for injection.

Reservoir Characteristics

The pool was predominately a black oil reservoir but did contain a gas block amounting to about 7 per cent of the total sand volume. The sand is medium grained, firmly friable, fairly clean and fairly well sorted. Figure 5 is an isopachous map showing the sand distribution. This is a simplified version of the map prepared by the Unit Engineering Advisory Group.

A limited number of cores was taken during development of the Carneros. Analyses of thirty-nine samples show a range of porosity from 25 per cent to 40 per cent. It is estimated that the weighted average porosity is approximately 30 per cent. Permeabilities show a variation from 10 to 3,940 millidarceys with an approximate average of 1,000 millidarceys. There are no analyses of oil base cores or capillary pressure curves to determine water saturation. Calculations from electric logs indicated water saturations as low as 16 per cent and as high as 40 per cent. It is estimated that the weighted average is 25 per cent.

Crude oil from the unit varies in gravity from 17° to 22° API with

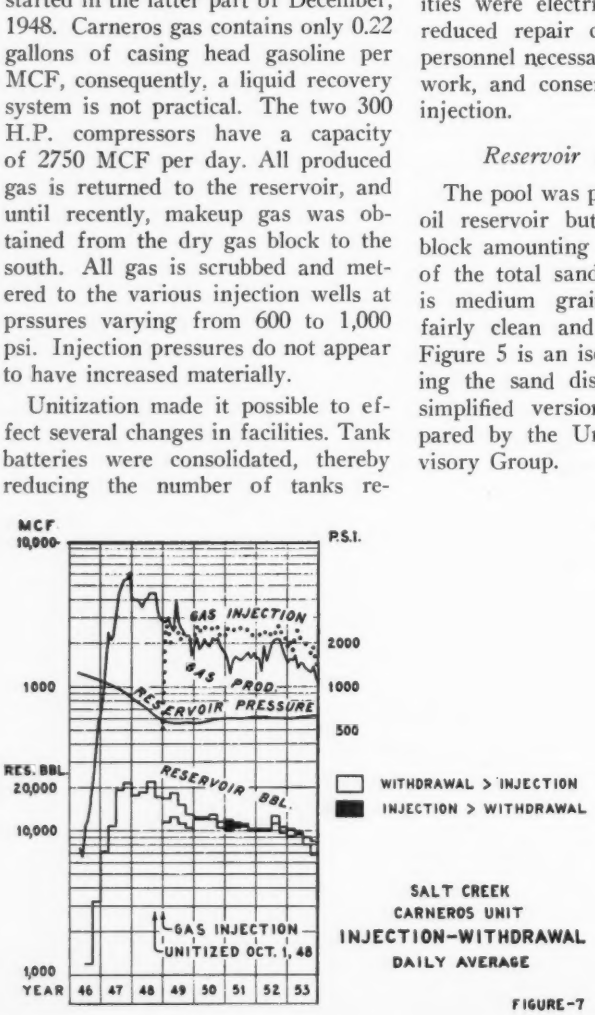


FIGURE-7

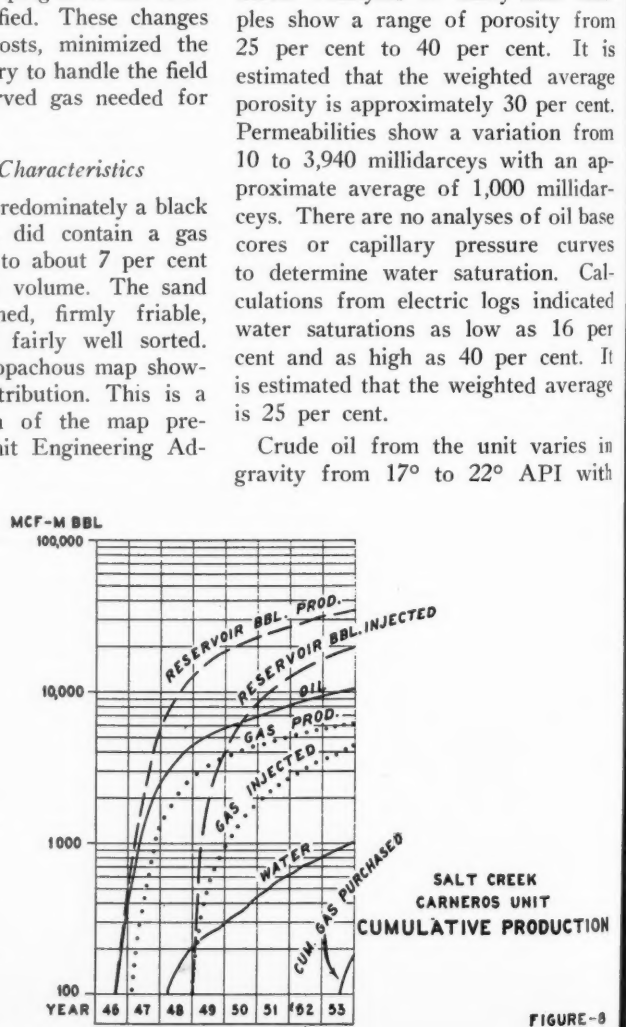


FIGURE-8

an average of 18°. Using Standing's correlation charts, it is estimated that the original solution gas-oil ratio was 135 cubic feet per barrel at the original reservoir pressure of 1,230 psi. This compares favorably with field observations during the early life. There was no original gas cap in the oil productive fault blocks. It is interesting to note that the dry gas fault block contained no oil sand. It contains only dry gas with a specific gravity of 0.626 underlain by a water table approximately the same as in the oil blocks. The highest point in the gas block is more than 100 feet lower than the highest point in the oil blocks where no gas cap existed.

Reservoir Performance

The performance of this reservoir is probably the most interesting part of its history. Several figures have been prepared to illustrate the productive life. Figure 6 shows the daily average production. It will be seen that oil production reached a maximum of 7,200 barrels per day in October, 1947. Subsequently, production declined approximately 30 per cent per year. This decline is due, at least in part, to voluntary curtailment to an efficient rate. During the first year under operation the practice of declining withdrawals was continued. During the last four years a fairly constant rate has been maintained ranging from 3,100 barrels per day to 3,500 barrels per day. This was possible since injection was approximately balanced against withdrawals and reservoir pressure were increasing slightly.

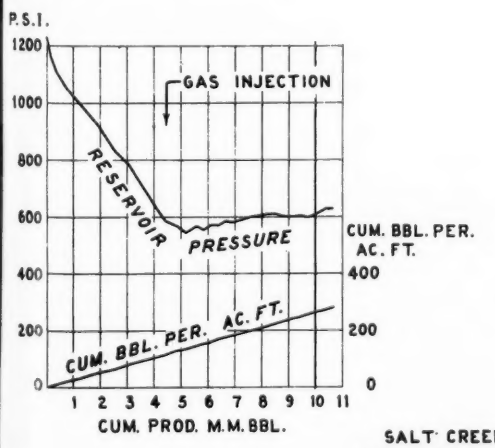
Static reservoir pressures have been taken at three-month intervals throughout the life of the reservoir. These were taken at a datum of 1,750 feet sub-sea. Pressures are measured in the annulus of pumping wells by means of offset tubing heads. The average reservoir pressure dropped from 1,230 to 580 psi before gas injection was started. It leveled off very sharply at this time and has increased gradually to 625 psi. It is believed this leveling of pressure coincidental with gas injection is due to water influx rather than the immediate effect of the injection. Pressures increased during the latter part of 1953 even though injection rates were considerably below withdrawals. This can only be explained by water moving into the reservoir.

Gas-oil ratios have been reduced from 750 cubic feet per barrel to the current ratio of 330 cubic feet per barrel. Cumulative gas-oil ratio has shown a slight decrease in the past three years. Water production has been minimized, the current rate being about 15 per cent of the gross production. The cumulative cut is only 9 per cent of the gross.

Figure 7 shows the daily average fluid withdrawn compared with that injected expressed in reservoir barrels. It will be noted that during only two periods did injection exceed withdrawals. Currently the unit is producing approximately 8,400 reservoir barrels per day and injection 6,700 barrels per day. In spite of this, reservoir pressures increased which is further evidence of a water drive. The reservoir pressure curve have been repeated on this graph for convenience. Daily average gas injection and gas produced are also shown in Figure 7. The difference in the two curves represents the amount of makeup gas taken from the dry gas block. The dry gas block is now depleted and a limited amount of gas is being purchased from outside the Unit. The Unit is negotiating to purchase additional gas to balance withdrawals.

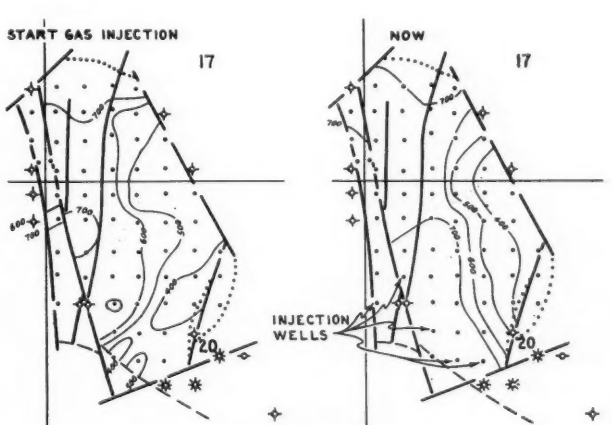
Figure 8 is a plot of cumulative production and injection vs. time. The Carneros has produced 10,693,748 barrels of oil and 6,808,171 MCF of gas from the oil blocks to January 1, 1954. Prior to gas injection, the reservoir had produced a cumulative of 4,456,508 barrels. This is equivalent to 6,850 barrels of oil per pound drop in reservoir pressure. During the period of gas injection, 6,237,240 barrels have been produced at an injection gas-oil ratio of 675 cubic feet per barrel. Production to date including oil, gas, and water represents approximately 34,575,000 reservoir barrels. Since unitization, 4,208,811 MCF of gas have been injected or an equivalent to 19,393,000 reservoir barrels. Production, therefore, exceeds injection by 15,182,000 reservoir barrels.

The relation of cumulative production to reservoir pressure is shown on Figure 9. Also shown in the relation of cumulative production to cumulative recovery in barrels per acre foot of oil sand. To date the unit



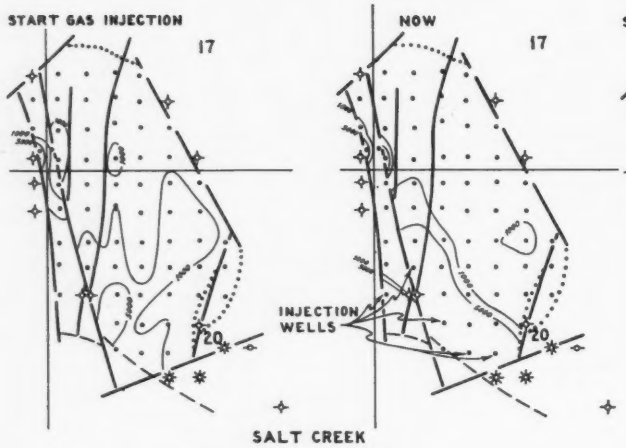
SALT CREEK
CARNEROS UNIT
RESERVOIR PERFORMANCE

FIGURE-9



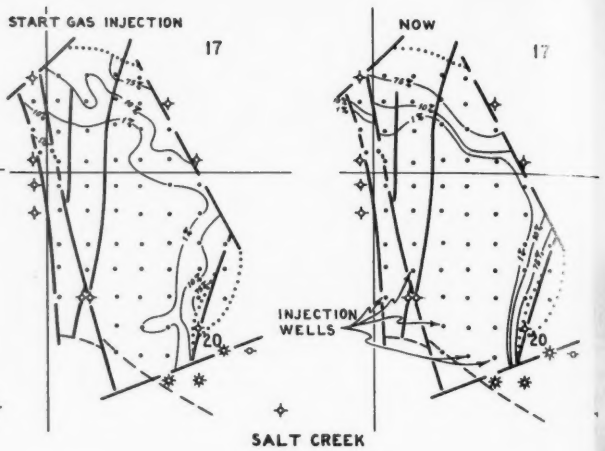
SALT CREEK
CARNEROS UNIT
RESERVOIR PRESSURE DISTRIBUTION

FIGURE-10



GAS-OIL RATIO DISTRIBUTION

FIGURE-11



WATER DISTRIBUTION

FIGURE-12

has produced 282 barrels of oil per acre foot. The dry gas block has produced 828,211 MCF of gas and is now depleted to an economic limit. This portion of the unit is estimated to have had originally 2,791 acre feet of gas sand. This represents 296,668 cubic feet per acre foot which is equivalent to approximately 1,370 reservoir barrels per acre foot.

Three illustrations have been prepared to show the results of pressure maintenance. These are necessarily small and detail is minimized. Each compares conditions at the time injection started with the conditions now. The first is Figure 10 showing the distribution of reservoir pressure. It will be noted that the area with pressures greater than 700 psi has been greatly expanded. The eastern side of the reservoir has not responded to injection as much as other parts of the reservoir. The trend of the 500 pound and 600 pound isobars has not changed materially in the past few years. There is some evidence that recent alteration in the injection will improve conditions in this low pressure area.

The gas-oil ratio distribution is shown in Figure 11. A very irregular gas-oil ratio pattern existed at the inception of gas injection. Controlled production and injection have allowed gravity segregation to concentrate the secondary gas cap at a high structural position. Two exceptions to this exist in the northwest, probably where local faulting restricts segregation. Gravity drainage will probably contribute materially to the recovery efficiency of the reservoir.

The last Figure Number 12, is by no means the least interesting. It shows the distribution of water as a per cent of total fluid produced. When injection was started there was good evidence that water was fingering into the reservoir following an irregular pattern. It is apparent by comparing the two maps that pressure maintenance has greatly reduced the fingering effect. This alone has greatly increased the recovery efficiency. Water has continued to advance into the reservoir but on a uniform front. The zone of gradation from 75 per cent to 1 per cent has been reduced to a narrow band. If this control can be maintained in the future, a high recovery may be expected.

Acknowledgment

The author wishes to express his thanks to the other engineers who have served and who are presently serving on the Engineering Advisory Group of the Salt Creek Carneros Unit for their assistance in compiling much of the data incorporated in this report. He also wishes to express his appreciation to the managements of the various participants of the Unit for permission to present the paper. He particularly expresses his thanks to the Intex Oil Company, operator of the Unit.

Paper presented before Production Division, API, Los Angeles.

Water Flooding Program In Operation

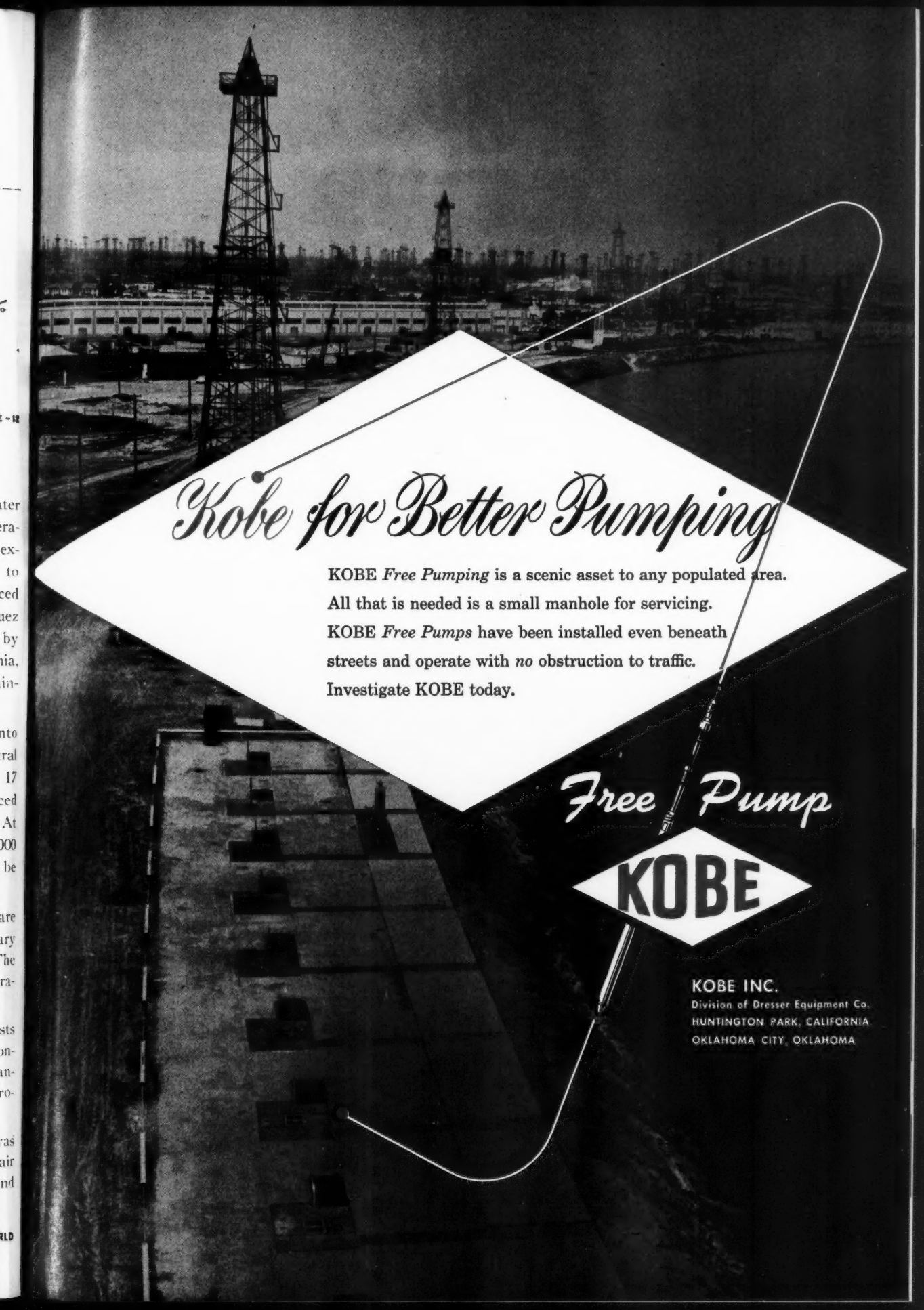
First large scale cooperative water flooding program ever to be operated in California which it is expected will add substantially to known crude oil reserves was placed in effect on July 1 in the Dominguez Field in Los Angeles county by Union Oil Company of California, Shell Oil Company and the Dominguez Oil Fields Company.

Injection of water was begun into five wells of the First East Central pool at Dominguez. A total of 17 water injection wells will be placed in operation within the month. At peak capacity, approximately 10,000 barrels of water per day will be injected into the 17 wells.

Fifteen producing oil wells are in the area in which the secondary recovery methods will be used. The Union Oil Company will be operator of the injection facilities.

More than two years of pilot tests and engineering studies were conducted by the participating companies before the water flooding program was begun.

Approximately $1,750,000 was spent for drilling and well repair operations and water treating and injection facilities.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Montana

Union Oil and Carter Oil prepared for acidizing and further tests of their Glacier County producer, the No. 1 Tribal-544, after recovering a flow of 77½ barrels of oil in 24 hours from the Banff limestone. The well, in c nw nw 19-37n-8w, was drilled to 5867 feet in the Devonian and was perforated at 5765-85 feet for the successful test.

Sun Oil and Phillips Petroleum tapped the Madison for a new pay zone at their No. 2 Dynneson, c sw sw 29,24n-58e, which was completed for 188 barrels of oil per day. The well was drilled to a total depth of 9744 feet, and production was obtained from the interval 9128-9220 feet. The No. 1 Dynneson, the discovery well in this area three quarters of a mile southeast, found production in the Ordovician at 12,585-605 feet.

Shell Oil Co. was testing at 8670 feet in the Red River at the No. 33-22, c nw se 22-6n-60e in Fallon County. The well is on the Cedar Creek anticline.

Sun Oil and Eramont Petroleum et al were coring below 12,635 feet at their Richland County wildcat, the No. 1 Beagle Land and Livestock, ne sw sw 17-23n-59e.

Amerada Petroleum Corp. has announced locations for two wildcats in Hill County and two in Liberty County. All will be Madison tests. In Hill County the operator will drill the No. 1 Lenhard, c sw sw 13-36n-6e, and the No. 1 Wade, c ne ne 23 37n-16e. The tests in Liberty County will be the No. 1 Kolstad Ranch, sw sw ne 3-30n-4e, and the No. 1 Jones, se sw sw 29-29n-5e.

Wyoming

Production from the Newcastle sand in the Snyder Creek area has been extended farther to the southwest with the bringing in of Rimrock Drilling Co.'s No. 1 Govt.-Canada Southern, ne se sw 10-40n-66w. The well was drilled to 7803 feet total depth and flowed 106 barrels of oil in an eight-hour test.

Sohio Petroleum Co. has completed the No. 1 Dillon, ne se sw 18-57n-97w in the Sage Creek area of Big Horn County with a pumping gauge of 76 barrels of oil per day. Production was obtained from the Tensleep, from the plugged-back depth of 3492 feet. The well is just outside Sunray Oil Co.'s Sage Creek Unit.

Stanolind Oil and Gas obtained a flow of 68 barrels of oil in a 15-hour test of the No. 2 Unit, c nw nw 30-44n-81w, in the North Fork area of Johnson County. The No. 2 Unit is three quarter of a mile north of the Tensleep discovery well, the No. 1 Govt.-Mains. Stanolind has unitized the area.

Sun Oil Co. will deepen the No. 7 Ralston Unit, c ne nw 16-56n-101w, Park County, for a 13,000-foot Madison test. The well found production in the Frontier at 10,117-10,325 feet after being plugged back from the Morrison. It had been drilled to a total depth of 11,246 feet.

The California Co. found a flow of 20 barrels of oil per hour from the No. 7 Neiber Dome Unit, ne nw se 20-45n-92w, in Washakie County. Production is from the Phosphoria, which was topped at 10,000 feet.

In Fremont County, Superior Oil Co. completed an extension to the Northwest Sheldon area, the No. 21-1 Tribal, ne nw nw 1-5n-3w (WRM). It produced 16 barrels of oil per hour, swab gauge, from the Curtis sand which was topped at 3268 feet.

Arthur B. Belfer, Rachel Belfer and Lawrence Rubin of New York City have purchased the Pfaff-Quealy Corp., a deal believed to reflect the increased interest in the Green River Basin as a source of

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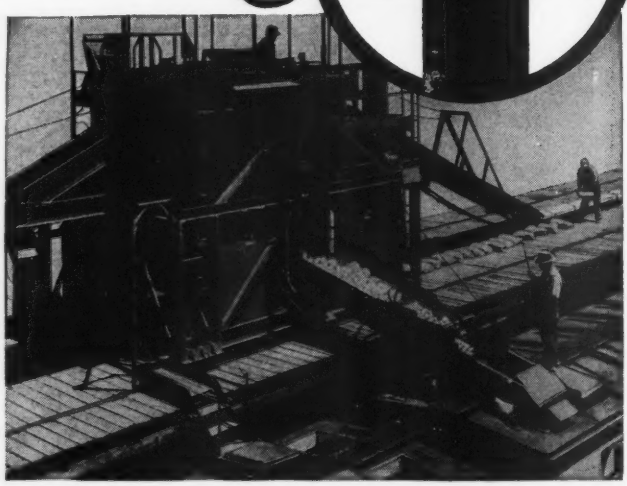

This giant machine ices a car a minute to keep pace with the fast service Santa Fe performs to move perishables. This is just one example of how we do a job for our shippers. So when the heat is on, no matter what you have to ship, just call your Santa Fe freight man.

R. S. Hirsch, Freight Traffic Manager
Santa Fe Lines, Los Angeles, Calif.
E. B. Johnson, Freight Traffic Manager
Santa Fe Lines, San Francisco, Calif.

gas for the Pacific Northwest pipeline. Belfer and his Belco Petroleum Co. have maintained an extensive gas exploration program in the basin. Their new holdings place them in a stronger position to take advantage of the markets ultimately to be served by the Pacific Northwest line.

The authorization granted Pacific Northwest is expected to greatly stimulate exploration and production in the Green River Basin, since this would be one of the sources of supply.

El Paso Natural Gas Co. was moving in materials for a 15,000-foot deep test, the No. 1 Pinedale Unit, ne se 9-30n-108w, Sublette County, which is in the Green River Basin.

Also in Sublette County, British American Oil Producing Co. has started the No. 2 Govt.-Hutchinson, nw nw ne 33-27n-112w.

Colorado

Oil and gas production in both the Adena and the South Adena fields in Morgan County is under definite restriction following orders of the Colorado Oil and Gas Conservation Commission which became effective July 1. Oil production is limited to 125 barrels per day per well, and gas production to 150,000 cubic feet per day. This is the first time the commission has set specific limitations on output per well.

Claycomb and Guida have shut in the No. 1 Tetsall, c ne se 32-9n-53w, Logan County after recovering a flow of six barrels of oil per hour on a six-hour test. Production was obtained from the interval 4823-26 feet.

Two and a half million cubic feet of gas per day was recovered from the J sand by Petroleum Inc. at the No. 1 Schwindt, c sw ne 13-3n-59w, Morgan County. The well was drilled to 6010 feet total depth, and production was obtained from 5910-37 feet.

On the western edge of Morgan County, O'Donnell and Edmondson and Sinclair Oil and Gas recovered 150 barrels of oil per day, swab gauge, from the No. 1 Jacobson, sw sw sw 25-5n-60w. Production was

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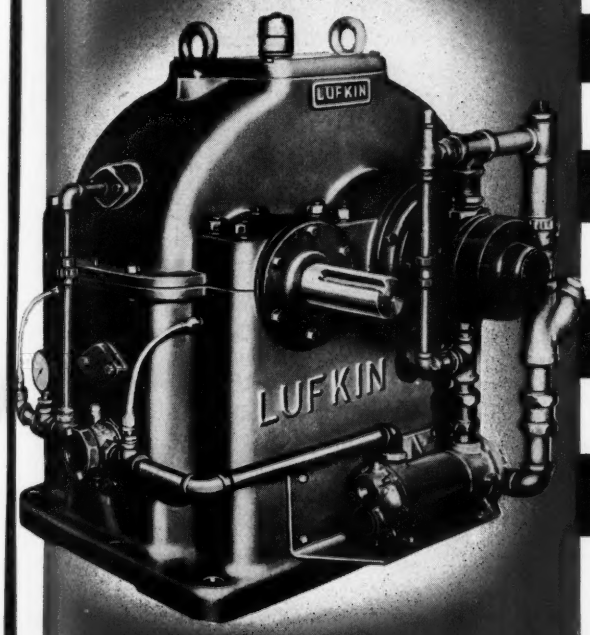

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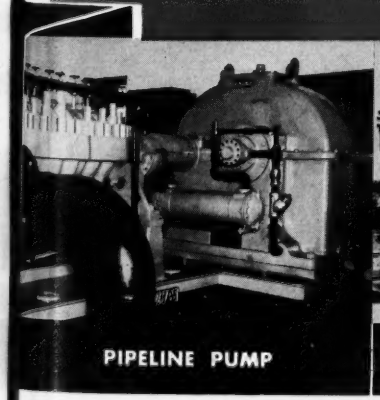
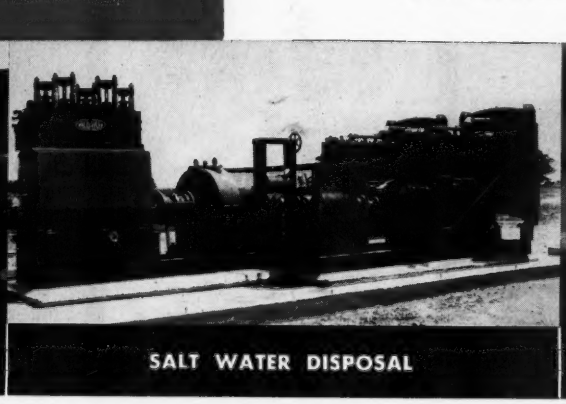
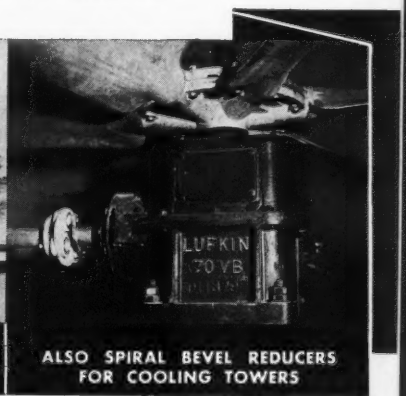


PIPELINE PUMP



SALT WATER DISPOSAL



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PACIFIC COAST DIVISION—5959 So. Alameda, Los Angeles 1, Calif.

obtained from the interval 6178-96 feet in the J sand.

Sharples Oil has announced location for a Lyons sand test in Weld County. The well will be the No. 1 Ehrlich, c se nw 4-4n-64w.

Nebraska

Carmack Drilling Co. swabbed oil at the rate of 75 barrels per day from the No. 1 Stauffer, sw sw se 34-19n-55w, in Banner County and was continuing tests. Production was from the J Sand.

Magnolia Petroleum, drilling an offset to Ohio Oil's No. 1 Kenton, completed the No. 1 Baur in Kimball County for a pump gauge of 175 barrels of oil per day. The location is sw sw nw 10-14n-54w.

Don H. Peaker has abandoned two wildcats in Buffalo County, the No. 1 Ebse, nw nw ne 5-8n-18w, and the No. 1 Marcus, ne ne sw 7-9n-15w. Both tests were drilled east of most other drilling.

New Mexico

Increased drilling activity in the San Juan Basin has been noted recently and has been credited to the approval granted the proposed Pacific Northwest pipeline. Wells being drilled at this writing include U. S. Smelting, Refining and Mining Co.'s No. 1-138 Jicarilla, nw se se 7-23n-3w, Rio Arriba County; Southern Union's No. 1-F Jicarilla, sw ne se 27-26n-4w, in the same county, and Continental Oil's No. 1 Hunker, c se nw 36-16n-17e, San Miguel County.

North Dakota

Warren Petroleum Co. is drilling the No. 1 Hoiby, ne nw 32-159n-94w, Burke County, a proposed northeast extension of the Tioga field.

Shell Oil Co. is drilling the No. 1 Torgerson, se ne 17-153n-68w, in Benson County. The well is 18 miles southeast of a dry hole drilled by this operator and is one of a series of slim hole tests.

Northern Natural Gas Co. has filed a request with the North Dakota Public Service Commission for authority to lay a natural gas pipeline from the Tioga field to Fargo and 15 other cities of the state. The system would be connected with the company's operations serving Minneapolis.

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South Dakota

Pure Oil Co. will undertake an exploration program in Corson and Perkins Counties which may require two years to complete. The company has taken assignment of 260,000 acres in those counties from Union Oil Co. of California. Union is one of the largest holders of oil leases in the state and has drilled a number of wells. Recently it has decided to farm out acreage.

Western Canada

The decision of the Westcoast Transmission Co. to appeal a ruling granting the Pacific Northwest Pipe Line Co. authority to lay a line from northern New Mexico to the Northwest is expected to delay action on the line. This opinion was expressed at a meeting of the Canadian Gas Association at Banff. While the appeal would not directly delay construction of the line, gas men said they believed Pacific Northwest would have difficulty getting financial support for the project while the appeal is pending.

Westcoast, which has headquarters in Calgary, wants to export gas from the Peace River area to Vancouver and the northwestern U. S. It was one of the petitioners for permission to serve the area, but the U. S. Federal Power Commission decided in favor of Pacific Northwest.

Howard Supply Moves To Larger Quarters at Santa Fe Springs

In order to provide better service for its customers, Howard Supply Company has moved to a new location in the Santa Fe Springs field. Their new store is located at the Northeast corner of Telegraph and Bloomfield Roads.

The new location will permit more parking and storage space for tubular goods and production equipment. It is approximately one-quarter mile east of the old warehouse.

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He said: "Rig's down—we're sure on the spot...all this downtime's got us in the hole. Can you..."

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The moral: You don't have to set up a sinking fund to get prompt action...not if you let Republic Supply all your needs. A complete staff of trained specialists is always available to help you with pesky problems ...and Republic's reliable service is always fast—amazing in emergencies!

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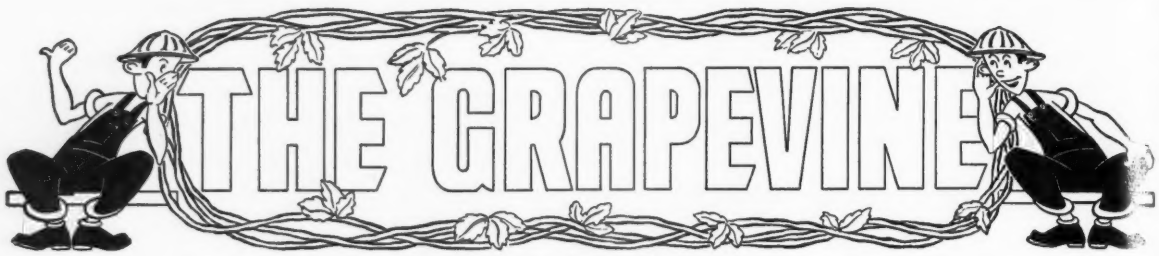

By RICHARD SNEDDON

From Far Away Places

Traveling has become such a mania with the petrolic people lately that we are having rather a difficult time to keep track of them all. Had a note from Swede Larsen the other day, datelined Le Havre, France, indicating that he had just completed an enjoyable ride around the Normandy Peninsula whereever that is. He tells us that the cuisine at the various hostelries along the way was excellent. As nearly as we can gather from a study of his communique, it consisted largely of bread and wine, and the bread was distinctly superfluous. Also had a billet doux from Charlie Smith who was galloping around Stockholm about the time of writing and also liking it immensely. Charlie had just arrived there after a lovely time and was still raving about a gorgeous trip through a myriad of canals and lakes, and across the Baltic Sea to Stockholm. Incidentally, he tells us that Stockholm is built on 15 islands, and has 40 bridges.

Of Bridges and Fjords

It sounds a bit ridiculous but if we had had that many bridges in any of our Scottish boroughs we would probably have developed some of the world's finest swimmers. You know, of course, that swimming was invented by the Caledonians coincidental with the introduction of toll bridges. Getting back on the beam, however, and continuing our report on the Smith ramblings, Charlie was expecting to take off for Norway any minute. That is the country that is so overrun with Fjords—there is hardly a Chevrolet in the place. Anyway, we are willing to bet that it won't take him very long to do Norway, for the Rams-Redskins game takes place on August 18 and the thing would look pretty silly without Charlie.

News From Quebec

From Quebec comes a short note from Tom Hickey, one of the petroleum industry's top ambassadors of goodwill, who went back yonder to attend the PESA convention. As anyone with good taste would be, he was much enamored of the beautiful old city and its surroundings. We lived down that way among the French Canadians for a couple of years and enjoyed every minute of it. There is nothing quite like Quebec and its environs anywhere excepting perhaps in some of the outlying areas of France. If you would like to get a good insight into the conversational peculiarities and the quaint manners and customs of the extra-urbanites around Quebec, you should read "The Habitant", by William Henry Drummond. This is a series of poems in the French-Canadian dialect, and they are wonderful. Nearly everyone is familiar with "The Wreck of the Julie Plant" on Lac St. Pierre where "the win she blow lak hurricane," but, personally, we liked the adventure of Dominique and the stove pipe hole better, and the story of Jean Baptiste Trudeau's two visits to the United States is a classic.

Mac McDowd Retires

Edward L. McDowd, better known as "Mac," who has been Shell Oil Company's chief scout ever since he was knee-high to a fishtail bit, retired as of June 30 and about the time this appears in print, he will be romping about the country in a nice new trailer, scouting the American scene. Mac is a widely known and popular chap who plays a mean game of gin rummy and is no set-up in a domino game either. Once or twice we have dared to tangle with him in both of these uncertain enterprises and the results have been decidedly embarrassing. As a matter of fact, we doubt very seriously if Mac could have purchased that trailer if we hadn't from time to time acted as his Number 1 pigeon.

We Are Taken For A Ride

Mac is a sharpie, of course, and we should have expected exactly what happened, but peculiarly enough most of our heavy losses have been sustained when we tangled with rank amateurs or people posing as such. A few days ago we engaged in a domino joust with Stark Fox, executive vice president of the Oil Producers Agency, against Bob Roberts, the Standard of Cal public relationist, and Don O'Neill, executive vice president of the Independent Refiners Association of California. Now, Don was supposed to be a beginner, so what happened? So we lost our trousers — that's what happened — and the Sneddon exchequer is currently lower than the nether epidermic of a whale. All we have to say after this debacle is that from now on, beginner or no beginner, we are going to play our top game and the heck with making friends!

Blackfeet Goings On

By the way, we forgot to mention that we had another postcard from Glacier National Park up Montana way, signed "Jim" and we are guessing that it is from Jim Mac-

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Donald, the former Chain Belt executive, who is now living on his quite bountiful means. Jim had just been watching a flock of Blackfeet Indians doing some of their tribal dances and for some reason it reminded him of a bunch of Scotsmen who had dropped a sixpence in the dark and were trying to find it by shuffling about in their bare feet. We had an uncle who could not only find a small coin that way but could even tell whether it was heads or tails.

A Day at the Races

One of the big events of the of the year is going to be the Petroleum Club Del Mar Day which features a Petroleum Club Handicap with Dave Day, the genial president of the organization presenting the traditional horseshoe floral piece to the winner. Members and their guests will leave Los Angeles on the morning of August 18 at 10:30 city time on a special Santa Fe train complete with observation car, club cars, a card room, and diners. The affair is in immediate charge of Jim Kelley, who will be assisted by Ham Bell, Ed Stout, Reg Keans, Bernie Dresser, Bo Weill, and Sam Bowlby. The feminine interests will be under the direction of Mrs. Henry Salvatori and her assisting ladies, Mesdames Rollin Eckis, L. L. Aubert, Paul Huggins, P. S. Magruder, W. H. Geis, and David E. Day, and the party will convene on the Turf Club terrace to enjoy the day's racing program.

What Happens Enroute.

The train will stop at Santa Ana and San Juan Capistrano to pick up vacationists and out-of-towners, with brunch being served on the way down and a prime rib dinner on the return journey in the evening. It is expected that the click of the dominoes will enliven the game room and give those who are unfortunate at the track an opportunity to recoup. Reservations are being picked up in good shape and everything is being done that can be done to make this in all its aspects a memorable outing.

BASHER OF BADMINTON BIRDIES

Milton E. Loy, the tall, quiet mannered chap who officiates very capably as Pacific Coast area manager for Schlumberger Well Surveying Corporation, is a native of California. He was born in Hayward some years ago, was later graduated with a B.S. in engineering from University of California at Berkeley, and in the meantime has acquired quite a reputation among the petroleum people. He joined Schlumberger in 1940 after two years of interesting experience in geophysical work, served successively as Coastal, San Joaquin Valley, and Sacramento Valley field engineer, and by the time he had become assistant area manager of the firm for this area, that was in 1948, was thoroughly familiar with the diverse aspects of petroleum drilling and production. He succeeded Fritz Taves as Pacific Coast area manager early this year. Milt has been active in various industry technical groups and societies, particularly AIME, API, and AAPG, for many years and has made substantial contributions of time and talent to the conduct of their industry programs. He is also a popular member of Petroleum Production Pioneers and the Petroleum Club of Los Angeles, in which latter he engages in an occasional game of dominoes and displays an unusual aptitude for counting up at the end of the game to see how much he owes. For the more strenuous type of exercise he resorts to the use of a badminton court on his home at San Marino where it is said that he can denude a badminton bird of its feathers in nothing flat. Actually, Milt is a studious individual and his real hobby is the mechanics of petroleum drilling and production, particularly the intricacies of well logging in which he is pretty thoroughly established as one of the industry's leading authorities.

Picking the Ponies

On the subject of racing, we have been informed on what appears to be fairly reliable authority that C. H. "Tut" Tuttle, the eminent Chevron violinist, made a recent Saturday trip to Hollywood Park and was heard telling the boys in the purchasing department next day he picked the first seven winners and would have been on the eighth too if he had had any money left. We ourself can remember once laying heavy kale on the soft nose of a filly, named Modern Girl. True to her title, she didn't get in until around 2 o'clock the next morning.

Visitors From Tulsa

We had a very interesting session recently with Art Quackenboss, the noted Union Oiler, and his guests from Tulsa, Oklahoma, a pair of very personable gentlemen, Sam Hulse and Bud Stigletts of the Warren Petroleum Company. This junior conventicle was productive of some highly interesting discussion on all phases of the petroleum business, and phases of other abstruse industries and occupations that are only dimly related to oil. The Tulsans were much intrigued by our California summer and when they asked what kind of weather we had in winter, we unblushingly told them that having only been here eleven months, we didn't know. Anyway, we found them to be very lovely people and our brief get-together was both enlightening and enjoyable.

Western Pipe Liners Meet

According to an announcement just received. Norman Anderson and his fellow members of the Western Pipe Liners Club will foregather at the Lakewood Country Club on Thursday, July 15 for their annual summer golf and gourmandizing assembly. The ravaging of the turf will begin promptly at 1 p.m., at which time the contestants will successively belt their respective golf balls off into space (they hope) and thereafter will not see the other members of their foursomes until the tournament is over. With the possible ex-

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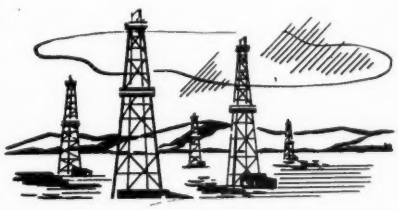

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FACTS Any of these drainholes can be completed with liners of any description. The above statements are facts that have been accomplished many times during the last several years and the economies and safety factors have now put high angle or horizontal drainholes in an accepted category.

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ANOTHER SIEVERS OPERATION

ception of Frank Coyle, Joe Joses, and maybe a couple of others who are somewhat expert at the game, these lads can send a series of golf balls flying in more directions than you would find on a compass, but we shall tell more of the sordid details later. Meantime, this is merely to announce that the early afternoon and evening will be devoted to the usual conviviialities and the whingding will wind up with a fine dinner in the solarium room.

The Original Whingdingers

On the following day the Nomad Whingding takes place at the Riviera Country Club and under the direction of John Flanagan, the current president, a lively program has been arranged. General chairman of the entire caboodle is Ox "The Body" Morgan, a capable arranger who will be well aided and abetted by Bob Gaylord, the resourceful Wagner-Morehouse engineer. In charge of excavation, laughingly called golf, up to the moment of going to press are Joe Schlarb, the Chiksan smoothie, Chile Sutton, the export biggie, and Roland Smith, the famed foreign distributor. Herm Paschall is chairman of entertainment and Babe Doyle, the perennial prize picker, will be helped in that chore this time by Bill "Yellow Tiger" Wilson. Dick Winder is the Walter Winchell of the outfit and Leo Cypher will do his usual good job of stretching the shekels.

For the Sports

Golf will be begun at sun-up and there will be prizes for low gross, low net, low behavior, and high spirits. There will also be door prizes and other inducements for the less active members, including a dinner and floor show, an afternoon accordionist to drown out sporadic quartets and scattered around the halls will be sofas, davenports, couches, and other species of relaxing devices for those who had no idea they were so old. Elbow bending will probably be one of the most popular exercises of the day and conversation will also flow freely. This is really an excellent spot to meet a lot of interesting people

Things Yet to Come

A great deal has happened since the inception of this company four years ago. It has been a time of exceptional growth, progress, achievement.

The broad range of work undertaken includes the simple and the complex . . . complete refineries and auxiliary units . . . crude units and office buildings . . . turnaround operations and laboratories. And the field of operation has expanded to become international in scope, with "Built by Procon" a well-known term even in the more remote parts of the world.

We are proud of the men in our organization whose talents, experience and unbounded energy have made these achievements possible.

But we are even more conscious of, and grateful for, the confidence placed in us which, from the very start, has been so clearly evidenced by all those whom we have served.

The accomplishments of these past four years . . . great as they seem to this young business . . . will, we are confident, prove to be but a shadow of things yet to come.

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and we are looking forward to being one of those present, so more of this one later too.

With The News Hawks

Grove Lawrence, the Southern California Gas Company executive, was the guest speaker at the June meeting of the Petroleum Press Club and did an excellent job of expounding the present status and future requirement of gas in this rapidly zooming area. Grove is a quiet unassuming sort of chap but he is loaded with pertinent information and he expresses himself lucidly and to the point. These meetings, by the way, are developing into an important news source out thisaway and in addition introduce a lot of extraneous information that may not be news but is definitely educational. The impromptu discourse that took place at this last meeting, for instance, on the conservation of decibles was something that we believe could be pursued further with worthwhile results. In fact, it was suggested that if all the decibels squandered in idle conversation could be directed to sonic drilling, it would substantially reduce oil property exploitation costs.

Cruelty in a Garden

It seems to us that the entire existence of Bill Heater, the baronian Baroider, has been vastly upset by the demise some time ago of his Macadamian nut tree. After nursing and nurturing this delicate bit of flora through a number of severe illnesses over several years, Bill was horrified to learn one day that a gardener had inadvertently yanked the plant from its warm bed and tossed it shamelessly on the compost heap. Bill mourned the loss bitterly for months and although he appeared finally to get over it, we notice that even now his shoulders sag and his eyes dim whenever mention is made of the Macadamian nut.

Of This and That

By way of last minute roundup, we are pleased to learn that Dee Taylor who went into the hospital recently for treatment is coming along in great shape and will soon be back in his old haunts as good as new. It was quite a surprise to some of us at least to hear that Frank Morgan had decided to go in with Ampol over in Australia although some of his more intimate friends say they anticipated the move. H. H. "Bert" Kelly, director of purchases for Richfield Oil Corporation begins his retirement with a trip over to England. Recent visitors in Los Angeles were top Tide Water Associated Oil Company executives from San Francisco, Dave Staples, Fero Williams, and Bert Haney. Wherewith we leave you to your own devices. Remember, when a match gets lit, it invariably loses its head.

Edward S. McAuliffe of east San Gabriel, long identified with the oil industry, has extended his business interests to uranium, he announces.

Wilson K. Minor, assistant comptroller for Standard of California at San Francisco, has been re-elected regional vice president of the Controllers Institute of America, effective September 1.

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- In 1953 alone we logged wells totaling about 500,000 feet.

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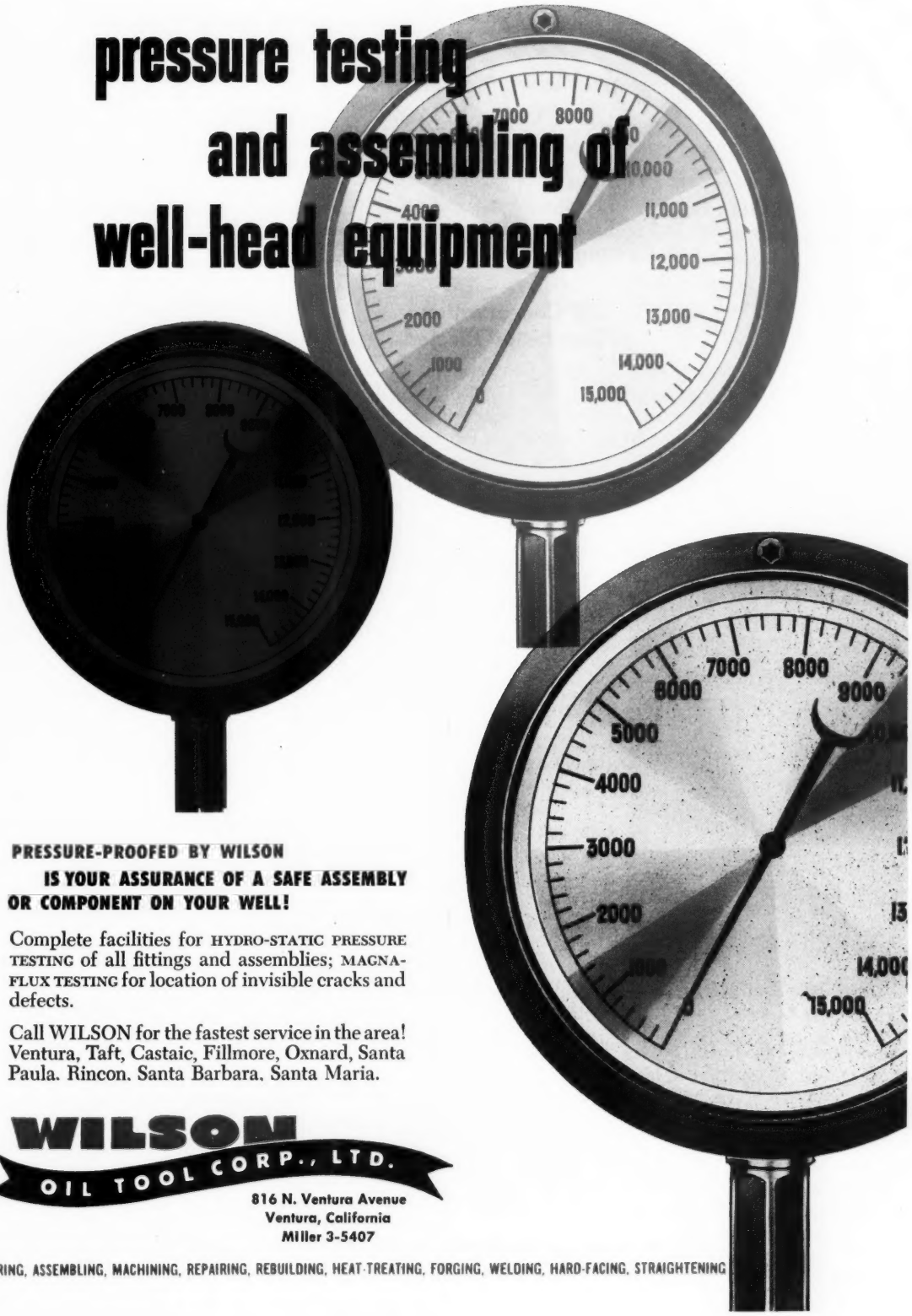
pressure testing and assembling of well-head equipment



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IS YOUR ASSURANCE OF A SAFE ASSEMBLY OR COMPONENT ON YOUR WELL!

Complete facilities for HYDRO-STATIC PRESSURE TESTING of all fittings and assemblies; MAGNA-FLUX TESTING for location of invisible cracks and defects.

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Personalities IN THE NEWS

Emerson Named Gen. Sales Mgr. of Kaiser Steel

C. Lee Emerson has been named general sales manager for the Kaiser Steel Corporation, it was announced by C. F. Borden, vice president in charge of sales.

Prior to his new appointment, Emerson was southern district sales manager with headquarters in Los Angeles. In his new capacity he will be located in the general sales office, Stanwell Building, 285 17th Street, Oakland.

C. Lee Emerson

He joined the Kaiser organization in 1942 as materials engineer at the Richmond Shipyards. In 1945 he came with the Kaiser Steel Corporation in the sales department.

He is a graduate of the University of California, and has been active in community affairs, as a member of the Los Angeles Chamber of Commerce, American Society of Metals, California Club, Jonathan Club, San Gabriel Country Club, and the Nineteener's Club of Los Angeles.

Emerson, his wife, and their two daughters, plan to take up residence in the Oakland area in the near future.

Oil Conservation Committee Elected

The Conservation Committee of California Oil Producers held its annual election of officers at its organization meeting on June 24, 1954. Mr. Lewis R. Rogers, of The Superior Oil Company, was elected chairman for the ensuing twelve months. Mr. Rogers has served on the Conservation Committee for ten years. At the present time he is Chairman of District No. 11, representing operators of the Rio Bravo and Greeley oil fields.

The Conservation Committee conducts a program for oil conservation in California oilfields to increase underground recovery on a purely voluntary basis which is supported by a majority of the oil operators. The district committee members are elected by vote of the oil producers in the State to represent the various fields and districts. There are 1182 oil operators with a total of 32,300 oil wells producing in California. Vice Chairman, F. T. Lloyd, of Richfield Oil Corporation; Second Vice Chairman, Sol Alexander, of Century Oil Company; and Secretary, J. W. LePrince, of General Petroleum Corporation.

The election of new officers follows the general election of district committees which was held in May. The Committee is made up of the chairmen and vice chairman of the 30 oil producing districts into which the State is divided. In addition, one representative-at-large was added to the elected membership.

District committee chairman and vice chairman elected, who constitute the membership of the Conservation Committee, are as follows:

District No. 1, D. G. Kingman, of General Petroleum Corporation, Chairman; J. H. Gilliland, Gilliland Oil Company, Vice Chairman; District No. 2, H. S. Stark, Honolulu Oil Corporation, Chairman, H. O. Woodruff, The Texas Company, Vice Chairman; District No. 3, C. W. Stephens, The Ohio Oil Company, Chairman, E. E. Nichols, of Richfield Oil Corporation, Vice Chairman; District No. 4, Lloyd Williamson, of Lakeport Petroleum Company, Chairman, W. E. Fisher, of Section Thirty Oil Company, Vice Chairman; District No. 5, Milan G. Arthur, of Union Oil Company, Chairman, A. J. Horn, of Standard Oil Company, Vice Chairman; District No. 6, R. C. Gentry, of Standard Oil Company, Chairman, Rouse Simmons, of Bolsa Chica Oil Corporation, Vice Chairman; District No. 7, Ross McCollum, of National Oil Company, Chairman, W. B. Emery II, of The Ohio Oil Company, Vice Chairman; District No. 8, Glenn V. Kersten, of Western Gulf Oil Company, Chairman, John H. Beach, Oceanic Oil Company, Vice Chairman: District No. 9, J. L. Stephens, of Chanslor-Western Oil and Development Company, Chairman, H. W. Arbuns, of General American Oil Company of Texas, Vice Chairman; District No. 10, T. W. Bell, of The Texas Company, Chairman, Holmes Miller, Intex Oil Company, Vice Chairman; District No. 11, L. R. Rogers, The Superior Oil Company, Chairman, Donald S. Hare, of Monterey Oil Company, Vice Chairman; District No. 12, Paul E. Terry, of Capital Company, Chairman, J. H. Spohn of Pacific Western Oil Corporation, Vice Chairman; District No. 13, O. A. Graybeal, of Sunray Oil Corporation, Chairman, Kenneth Boyce, of Douglas Oil Company of California, Vice Chairman; District No. 14, R. T. Hanson, of Continental Oil Company, chairman, T. H. Rodgers, of Chanslor-Western Oil & Development Company, Vice Chairman;

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- GRAMPAW JUST FELL IN THE WELL, BLESS HIS CREAKY OLD BONES!!
DON'T WORRY!!- HERE WE ARE-"AVAILABLE", AND "ACCURATE"- THE JOHNSTON BOYS- WITH OUR JOHNSTON JAR!!-
THEY KNOCKED GRAMPAW LOOSE!! NOW, THEY'RE FISHING HIM OUT WITH THAT JOHNSTON JAR!!
IT DOES BOTH JOBS!!
IT HIT WITH JUST THE RIGHT FORCE, TO LOOSEN HIM WITHOUT HURTING HIM!!-
THOSE JOHNSTON BOYS ARE AVAILABLE FOR ANY TESTING JOB -AND THEY DO IT SO ACCURATELY!
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FORMATION AND CASING TESTING — JOHNSTON

District No. 15, Joseph Jensen, of Tide Water Associated Oil Company. Chairman, B. P. Bayless, of Lloyd Corporation, Ltd., Vice Chairman· District No. 16, A. K. Smith, of Bell Petroleum Company, Chairman, T. H. Acres, of Sunray Oil Corporation, Vice Chairman; District No. 17, R. H. Garrison, of Hellman Estate, Chairman, D. W. Elliott, independent operator, Vice Chairman; District No. 18, H. G. Henderson, of Severns Drilling Company, Ltd., chairman, L. W. Chasteen, of Union Oil Company of California, Vice Chairman; District No. 19, William L. Hobro, of Shell Oil Company, Chairman, J. A. Woodward, of St. Anthony Oil Corporation, Vice Chairman; District No. 20, E. Robert Burns, of MacDonald and Burns, Chairman, Chester F. Yunker, of Del-Amo Estate Company, Vice Chairman; District No. 21, T. H. Sherman, of Huntington State Company, Chairman, J. T. Carriel, of Southwest Exploration Company, Vice Chairman; District No. 22, C. K. Roberts, of Great Lakes Oil & Chemical Company, Chairman, Quay S. Diven, of Tide Water Associated Oil Company, Vice Chairman; District No. 23, Sol Alexander, of Century Oil Company, Chairman, E. P. Crail, of Victory Oil Company, Vice Chairman; District No. 24, R. J. Stephens, of Kern Oil Company, Ltd., Chairman, Jack Herley, of Herley-Kelley Oil Operations, Vice Chairman; District No. 25, Emil Kluth, of Pacific Western Oil Corporation, Chairman, J. W. LePrince, of General Petroleum Corporation, Vice Chairman; District No. 26, Paul Andrews, of Signal Oil and Gas Company, Chairman, S. A. Patterson, of Bankline Oil Company, Vice Chairman; District No. 27, Chester F. Dolley, of Atlantic Oil Company, Chairman, D. M. Bernt, of Aeco Corporation, Vice Chairman; District No. 28, Geo. C. Hilty, of City of Long Beach Harbor Department, Chairman, William D. Tetsch, of Interstate Petroleum Corporation, Vice Chairman; District No. 29, R. A. Holman, of Amerada Petroleum Corporation, Chairman, Lloyd Hamann, of Seaboard Oil Company, Vice Chairman; District No. 30, F. T. Lloyd, of Richfield Oil Corporation, Chairman, J. O. Richardson, of Hancock Oil Company, Vice Chairman.

The member-at-large is E. E. Pyles, of Monterey Oil Company.

Carlson Advances At Kaiser Steel

Jack J. Carlson has been appointed assistant to the vice president and general manager of Kaiser Steel Corporation, it was announced by Jack L. Ashby, vice president and general manager.

In this new capacity Mr. Carlson will assist the general manager in fulfilling the responsibilities of his new position and offices. He will be located in the company's general offices at 1924 Broadway, Oakland.

Jack J. Carlson

Mr. Carlson joined Kaiser Steel Corporation in 1944 in a sales capacity and subsequently was northwest district sales manager, located in Seattle; southern district sales manager, located in Los Angeles; and assistant general sales manager, with offices in Oakland. For the past four years he has been general sales manager.

Prior to joining Kaiser Steel Corporation, Mr. Carlson was associated with Inland Steel Company of Chicago.

A graduate of the University of Chicago, Carlson has been active in industry and community affairs. He is associated with the American Society of Metals, the Jonathan Club, the Athenian Nile Club, and serves on the Board of Directors of the Family Service Bureau, a local Community Chest organization. He is coordinator of the company's activities in the Junior Achievement organization of the East Bay.

Carlson, his wife, Elise, a son and four daughters presently reside at 24 Richardson Way, Piedmont.

Heiner Elected Vice Pres. Of Kaiser Steel

Albert P. Heiner has been named vice president—public relations and traffic, of the Kaiser Steel Corporation, it was announced by Jack L. Ashby, vice president and general manager.

Heiner joined the Kaiser organization in 1942 as traffic manager, within a few months after ground was broken for the company's steel mill at Fontana, California. He has been active in various phases of the company's operations since that time.

In 1948 he was appointed assistant to the vice president and general manager, and was instrumental in the development and expansion of the company's public relations and advertising program. In his capacity as vice president, he will direct public relations and advertising, as well as traffic activities.

A graduate of the University of Utah in 1936, Heiner was president of the student body, as well as president of the Pi Kappa Alpha fraternity. Following graduation he entered the Harvard School of Business, where he received his master's degree in Business Administration in 1938.

Heiner has been active in community and church affairs. He is currently serving as vice president of the California Chapter of the American Society of Traffic and Transportation. He is past chairman of the Traffic Committee of the California Manufacturers Association.

Heiner, his wife Dora, and their five children, a son and four daughters, presently reside at 2616 Charleston Street, Oakland.

The new Mid Northern Oil Company at Huntington Beach is a partnership made up of R. P. Wilson, Stillwater, Oklahoma; E. J. Wilson, Hollywood; and C. C. Petersen, Huntington Beach.

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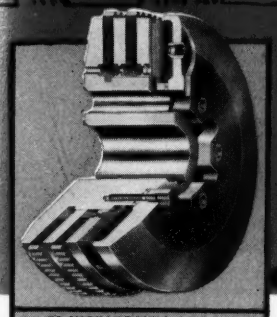
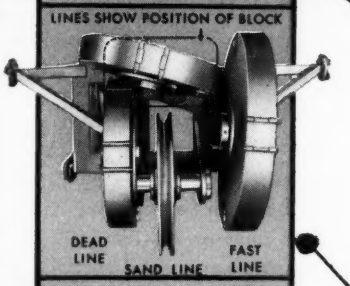
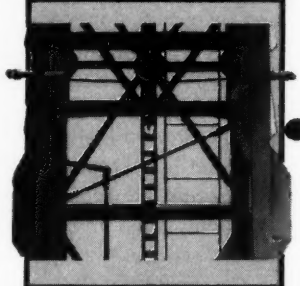
SUPER "38" WINCH & SUPER 65' MAST

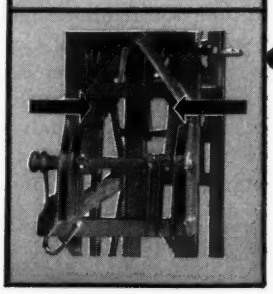
have these MODERN, EXCLUSIVE Features

All Drives Equipped with WICHITA AIR-TUBE DISC CLUTCHES







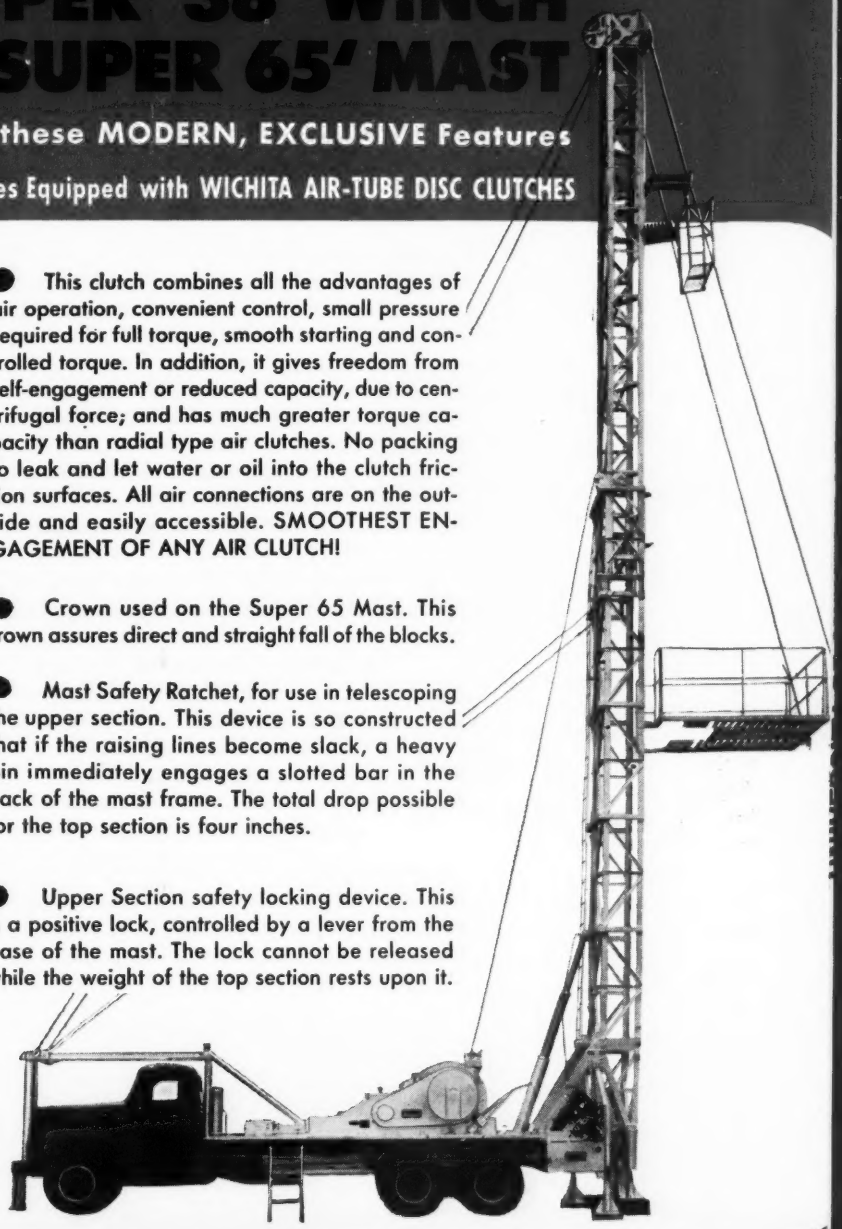


This clutch combines all the advantages of air operation, convenient control, small pressure required for full torque, smooth starting and controlled torque. In addition, it gives freedom from self-engagement or reduced capacity, due to centrifugal force; and has much greater torque capacity than radial type air clutches. No packing to leak and let water or oil into the clutch friction surfaces. All air connections are on the outside and easily accessible. SMOOTHEST ENGAGEMENT OF ANY AIR CLUTCH!

Crown used on the Super 65 Mast. This crown assures direct and straight fall of the blocks.

Mast Safety Ratchet, for use in telescoping the upper section. This device is so constructed that if the raising lines become slack, a heavy pin immediately engages a slotted bar in the back of the mast frame. The total drop possible for the top section is four inches.

Upper Section safety locking device. This is a positive lock, controlled by a lever from the base of the mast. The lock cannot be released while the weight of the top section rests upon it.



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BE MODERN BUY WILSON

Squires Succeeds Kelly At Richfield

Emery V. Squires, Assistant Director of Purchases of Richfield Oil Corporation, has been appointed Director of Purchases, succeeding Herbert H. Kelley, who retired June 30.

Emery V. Squires

As Director of Purchases, Mr. Squires will supervise procurement of materials and equipment and assignment of construction and drilling contracts for Richfield. Purchasing offices under his direction are located at the Company's general office in Los Angeles, the Harbor Division office in Long Beach, and in Bakersfield and Seattle.

Squires has been active in purchasing operations for 30 years, having joined Pan-American Petroleum Company, which was later acquired by Richfield, as a stock record clerk in 1924. He became a buyer in the former Richfield Oil Company general office in 1933 and later was assigned to direct the Company's Central Division purchasing office in San Francisco.

In 1937, Squires was assigned as a buyer in the Los Angeles office. He was named Assistant Director of Purchases in 1949.

Mr. and Mrs. Squires, with a daughter, are residents of Alhambra. He is a member of the National Purchasing Agents Association and of the Los Angeles chapter of that organization.

J. P. Bailey has been appointed to the newly established position of senior geologist (Special Projects) for the Southern District of Standard Oil Company of California's Exploration Department.

In his new capacity, Bailey will devote his full time to special geological problems encountered in the area. He will continue to make his headquarters in Los Angeles.

Succeeding Bailey as Southern District geological supervisor will be E. C. H. Lammers, who has been district supervisor in Salt Lake City. Lammers' post will be taken over by S. J. Kriz, previously area geologist at Ojai.

Sargent Announces Executive Changes

Sargent Engineering Corporation, for more than thirty-four years builders of deep well oil well pumps, has announced a re-organization and appointment of administrative officers, according to S. B. Sargent, president.

E. J. Sargent, who for twenty-three years has been vice president and director of production, has been made executive vice president and general manager of Sargent Engineering Corporation.

G. L. Sargent remains in the position of secretary-treasurer of the company.

Four new vice presidents have been named. H. L. Sargent has been made vice president in charge of the Oil Tool Division; Thomas G. Foley, vice president in charge of Production; Frank L. Weber, vice president in the charge of Internal Auditing; and W. H. Sargent, vice president in charge of Public Relations and Advertising.

The principle of producing a completely reliable product which will gain, foster, and hold the good-will of the customer has indeed been profitable to the Sargent Engineering Corporation. For today, Sargent Engineering is one of the major manufacturers of Aircraft Hydraulics and Oil Well Pumps in the United States.

The home plant in Huntington Park, California covers in excess of two acres and employs more than 500 men.

OSA Holds Monthly Meeting

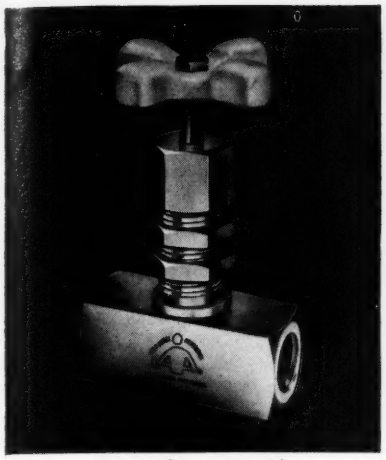
The Oilfields Service Association held its regular monthly meeting Thursday, June 17, at the Apple Valley Steak House in Long Beach. Following a steak dinner, the meeting was conducted by the president Ray Osborn of The Oil Tool Corporation. Entertainment was furnished through the courtesy of the Naval Air Station at Los Alamitos. It was announced that the entertainment for the next meeting would be films the Government made of the Texas City oil disaster, which should prove to be very interesting and enlightening.

William C. McDuffie, a member of Northrop Aircraft's board of directors since 1943, has been named board chairman of the firm. McDuffie is also chairman of Wilmington Gasoline Company and chairman of Mohawk Petroleum Corporation at Los Angeles.

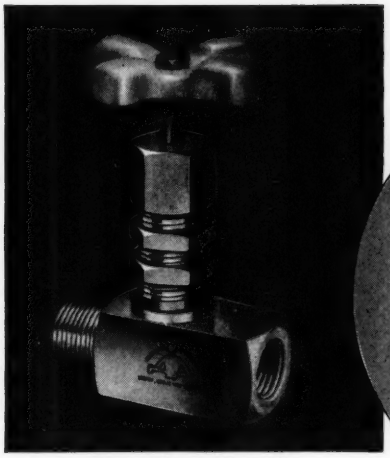
Totaling 121 years of service, four members of the Stockdale division of the Kern County Land Company have retired. They are George Green, Joe Espinoza, Cipriano Villegas and Bob Boone. These men were recently honored by a dinner meeting, at which George Montgomery, company president, was in attendance.

More than 250 feminine members of the staff of Union Oil Company at Los Angeles were on hand at a recent fashion prevue in the Beverly Wilshire Hotel Mayfair Room. Four of the Union Oil Girls Club members assisted by professional models displayed the fall season's most alluring new fashions. President of the Girls Club, Miss Ina Buel, supervised installation of new officers for the coming year, following the pre-survey of styles.

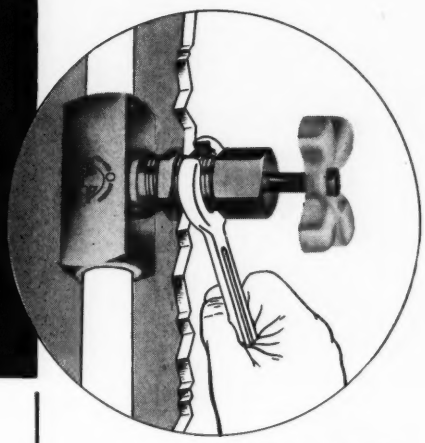
Harold F. Rodgers, Sr., who retired some weeks ago as General Petroleum Corporation division sales assistant, is dividing his time leisurely between a new home at Santa Rosa and his Sonoma County rancho. He first joined the company in 1925 in San Francisco as a plantman.



For panel mounting with double female connections.



For panel mounting with male inlet; female outlet.



A quick, trim panel mounting with a twist of a wrench.

Panel mounted in seconds!

Did you know that the best needle valve is also best for panel mounting?

Look at the valves above . . . specifically designed for panel mounting. No holding fixtures are needed. Simply remove the packing nut and one of the holding nuts; slip the stem through the panel opening and reassemble. The valve handle is packed separately to speed up the job — literally done in seconds.

You get a neater installation at lower cost . . . just one more proof that we have thought of everything in the Marsh 1900 series. Note the unduplicated features opposite. Ask for Needle Valve Catalog covering all details.

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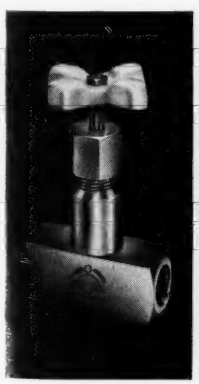
MARSH *Needle Valves*



Standard globe pattern with double female connections.

Standard globe pattern with male inlet; female outlet.

Standard angle pattern with double female connections.

Standard angle pattern with male inlet; female outlet.

MARSH

The ultimate in Needle Throttling Valves

All Marsh Needle Valves — for both panel and standard mounting — share these features that are combined in no other valves.

- **Maximum working pressure: 10,000 psi** — for water, oil, or gas. Equally effective in lower pressure ranges.
- **One piece.** Body and stem-guide are fused into one piece by Marsh "Conoweld" process. No danger of stem leaking or blowing out.
- **Precision machined and ground stem** —of 416 stainless steel. Easier to operate at higher pressures.
- **Finer regulation**—provided by long fine stem threads which also give added strength.
- **Machined from heavy bar stock**— Both body and stem-guide. Sturdiest basic construction known.
- **Deep "Marpak" packing**—longer lasting; easier to renew.
- **Deep throats and thread chambers** —for tight make-up of piping.
- **Handsome appearance**—Electro zinc plated body, set off by sturdy malleable iron handle finished in heavy, attractive, yellow baked enamel.
- **Clear markings.** Bodies marked in accordance with M.S.S. regulations showing size, material, service symbol, maximum pressure.

The standard series is shown opposite.

R. R. Hogan

Hogan and Griffith Advance at Kaiser Steel

R. R. Hogan has been named manager of the Kaiser Steel Corporation's southern district sales office, with headquarters in Los Angeles, and C. L. Griffith named assistant manager, it was announced recently by C. F. Borden, vice president in charge of sales.

Hogan joined the steel company in 1944 in the commercial planning department. In 1946 he entered the sales department, and was named assistant manager, central district sales, Oakland, in 1949. He was subsequently transferred to the southern district sales office in Los Angeles, as assistant manager, the position he has held to the time of this appointment.

C. L. Griffith

A graduate of the University of Utah in 1932, he was associated with the Steel Requirements Branch of the U. S. Maritime Commission prior to joining Kaiser Steel.

Active in Boy Scout work of Altadena, Hogan also participates in the activities of the Jonathan Club, American Society for Metals, Nineteeners, and the Annandale Golf Club.

Griffith, a University of California graduate in 1932, left private business to become associated with the Kaiser organization at the Richmond Shipyards in 1942. In 1944 he joined the steel company, and was placed in charge of the Ingot Yard at the company's Fontana, California plant. He has been with the southern district sales office since 1945.

In his new position he will assist Hogan in the direction of the company's sales programs in Southern California and Arizona. Their offices will remain in the General Petroleum Building, 612 South Flower Street, Los Angeles.

Attending an informal conference of Union Oil Company executives in Los Angeles the other week was Governor Dan Thornton of Colorado. The Governor, during his summer vacations in the early 1930s, waited on the motoring public at two Union Stations in Los Angeles. There were located at Wilshire boulevard and Wilton street, and St. Andrews Place and Beverly Boulevard. The Governor in those days was a student at the University of California at Los Angeles.

The Dennis Lee McGrews have returned to Fellows after honeymooning at Grand Canyon, Carlsbad Caverns and Prescott, Arizona, following their wedding recently in All Saints Episcopal Church at Montecito. Mrs. McGrew is the former Ruth Helen Roeder, daughter of Mr. and Mrs. C. F. Roeder of the Chanslor Western Oil Development Company, Fellows. McGrew, a business administration student at the University of California at Santa Barbara, is the son of Mr. and Mrs. R. N. McGrew of Alhambra.

Petroleum Club Day Set For August 18th

Petroleum Club Day at the Del Mar races has been set for August 18th according to announcement by J. C. Kelley, Chairman of the Club's Activities Committee. Members of the club and their ladies are already busily engaged in preparing for this event, in which the Woman's Committee, headed by Mrs. Henry Salvatori, will be extremely active.

Plans call for a special train consisting of observation cars, club cars, coaches converted into card rooms, and diners to take care of the several hundred people who will make the trip. Tables will be provided at the Turf Club and dinner will be served on the return trip.

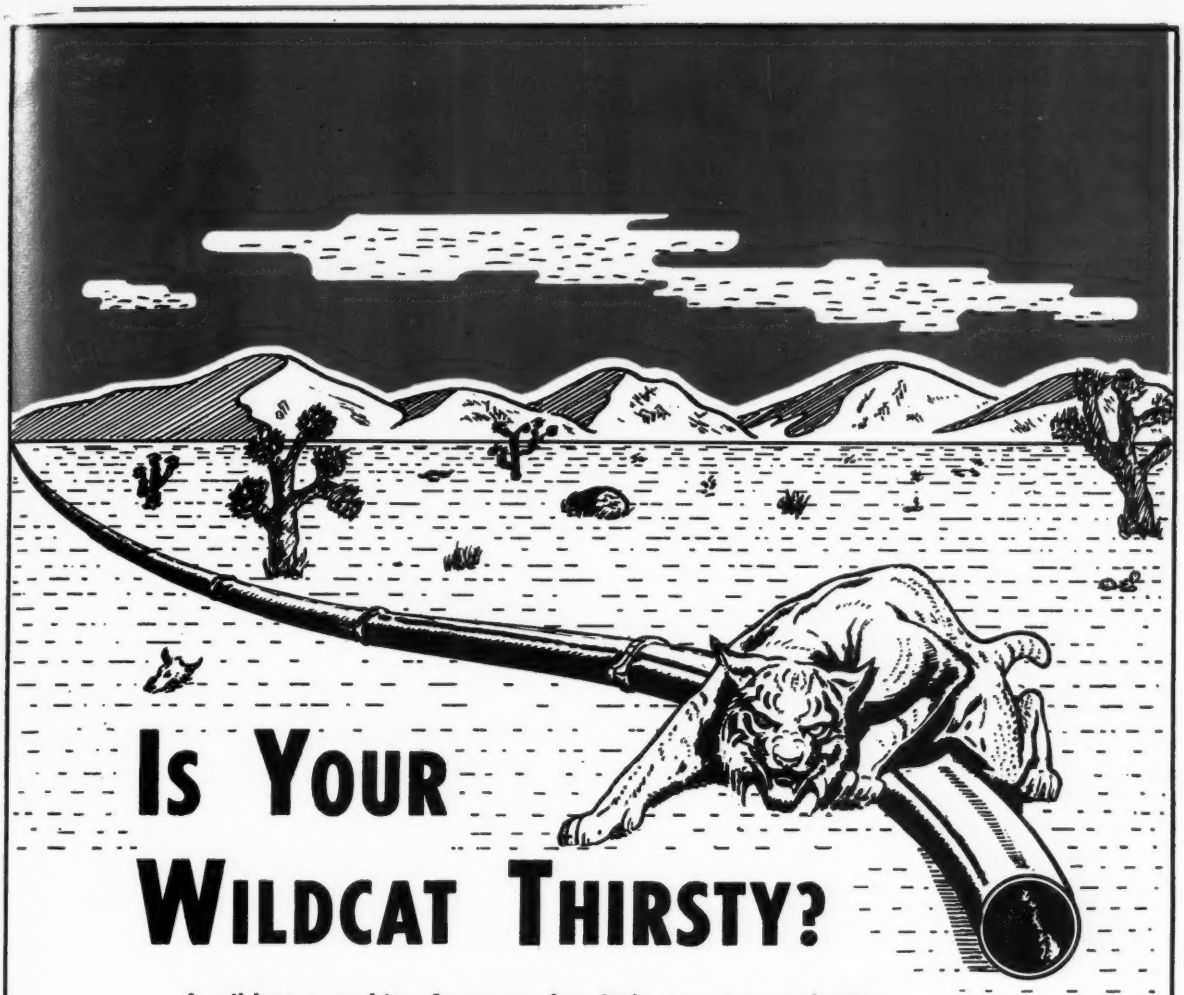
The Petroleum Club is made up of 750 well-known oil men and maintains quarters in the Statler Center.

The Women's Committee which assists in planning the social events consists of Mmes R. P. Huggins, Rollin Eckis, P. S. Magruder, W. H. Geis, L. L. Aubert, and David E. Day.

L. R. Newfarmer, Pacific Coast Area exploration manager for Shell Oil Company, recently announced the appointment of William H. Thomas as chief scout succeeding E. L. McDowd who retired June 30 after 21 years of service with the company.

Thomas, born in Rochester, Mont., and a graduate of Colorado College, has more than 21 years of service with Shell. He began his career in the company's exploration department as a laboratory assistant in Long Beach where, in 1941, he was assigned to oil scouting.

In 1943 he moved to Ventura and in 1951, with the discovery of oil in the Williston Basin, to Casper, Wyo. He was promoted to division scout in 1953 and later the same year transferred to Salt Lake City to head Shell's scouting activities on the western slopes of the Rockies. As chief scout, Thomas will maintain offices in Los Angeles.



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PIPELINES . . . Victaulic quick-coupling for water or gas.

PUMPS . . . Portable, skid-mounted—gas or butane powered.

TANKS . . . 157-bbl., portable, skid-mounted.

CATTLE GUARDS . . . Rugged, dependable, portable.

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Baker Oil Tools Flies Girls To Desk & Derrick Meeting

Baker Oil Tools, Inc. solved the problem of transportation for 10 of its Desk and Derrick Club employees who attended the Regional Meeting of the Association in Bakersfield June 5-6, 1954, by putting the Baker plane at their disposal for the round trip.

Baker girls represented both the Los Angeles and the Long Beach Desk and Derrick Clubs. Those from the Los Angeles Club were: Margaret Martin, Florence White, and Vera Williams. The Long Beach Club was represented by Willa Brown, Mildred Bryant, Freda Eaton, Margo Hauck, Elsie Kearns, Helen Knickerbocker, and Pearl Leibeck. In addition, Alice Maronde of Lane-Wells, who is Junior Past President of the Long Beach Club and National Scrap Book Chairman, accompanied the group.

The plane took off from the Long Beach Airport Friday afternoon, and landed 45 minutes later at the Bakersfield Airport. Members of the Bakersfield Desk and Derrick Club furnished transportation from the airport to the Bakersfield Inn, where the convention was held.

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ATTEND REGIONAL MEETING. Baker Desk & Derrick Club members who were flown to Bakersfield Meeting shown with R. C. Baker, Jr. (standing) and Ted Hurlbut, pilot. Girls are, left to right, Willa Brown, Margo Hauck, Freda Eaton, Florence White, Pearl Leibeck, Helen Knickerbocker, Elsie Kearns, Mildred Bryant, Vera Williams, and Margaret Martin.

The first activity was a dinner meeting that Friday evening, for the installation of the new Bakersfield officers. Then the official Convention started with a bang Saturday morning, June 5.

The main topic of discussion was the National Desk and Derrick Convention scheduled to be held at Banff, Canada, next September 7-8. In addition, the Region supported a motion by the Long Beach Club that the 1955 Convention be held in the beach city and the nomination by the Los Angeles Club of Meitzie Palmer for National President and Lydia Babka for National Secretary.

The balance of the Regional Meeting was highlighted by a Fashion Show and a Skit on Saturday evening and a Field Trip through the Bakersfield-Taft Oil Fields on Sunday morning. The field trip was arranged by the Bakersfield Club, with Mr. Larry Braden of the Tide Water Associated Oil Company as guide.

The Bakersfield Desk and Derrick Club furnished transportation back to the Bakersfield Airport for the Baker Oil Tools girls.

Your engine may be 15% more powerful than you think

Shell Premium Gasoline with TCP,* *the greatest gasoline development in 31 years,* sets free the captive power formerly locked in by lead and carbon deposits.

You'll feel your engine's had a tune-up before you finish your second tankful.

No matter if your car is a current model driven only a few thousand miles, or an "old faithful," you can enjoy up to 15% more power! This extra power is in your engine right now but it's "captive power"—trapped by the steady accumulation of lead and carbon deposits.

What happens is this: These deposits, *which are constantly forming,* build up in the combustion chamber and on the tips of your spark plugs.

In the combustion chamber they glow "red hot"—igniting the gasoline mixture ahead of time. *Power fights against you*—not FOR you. This condition is called pre-ignition and is responsible for wild ping, a most severe kind of knock.

When the deposits build up on your spark plugs—sometimes in as little as 2,000 miles—they cause the plugs to short-circuit. This makes your engine miss . . . especially when you don't want it to miss—such as when climbing a hill or passing another car.

But now there is a way to cancel out the trouble these deposits cause—a way that *sets free* that captive power. Shell scientists have discovered a fuel additive—TCP—which is utterly unique.

Blended into Shell Premium Gasoline, it does two things for you. First, it "fireproofs" the deposits in the combustion chamber so they can't cause pre-ignition. *Power works for you*—not against you.

Second, it modifies the deposits on your spark plugs so they can fire as they should—on time.

Shell Premium with TCP additive *unlocks the captive power* in your engine so quickly you'll feel it's had a tune-up before you've finished the second tankful.

No wonder that Shell Premium with TCP, the greatest gasoline development since the introduction of tetraethyl lead, is the biggest sales success in petroleum history

Shell Premium with TCP is available at all Shell Dealer Stations.

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SHELL PREMIUM *WITH* TCP

The Most Powerful Gasoline Your Car Can Use

SHELL

Field Development

Sunset Beach Marked For Additional Work

Notable in Los Angeles Basin field happenings is the discovery realized by Burt Aston with his Lomita No. 1 well on Section 19-5s-11w at Sunset Beach, between Huntington Beach and Seal Beach. Dunlap & Graham took the project down with a contract rig and also will drill a followup well, Lomita No. 3, just about to spud-in. The discovery, before being shut-in for need of storage, showed an outpouring of 29 gravity oil at a rate between 25 to 30 barrels a day through a 24/64-inch orifice, cutting initially 2.3 per cent. Original bottom is 8707 feet and redrilled depth 7185 feet. Interval open to production is from 7035 to 7185 feet. Red Star Oil Company was identified with the venture primarily and took it down to 4340 feet before turning it to Aston, but at the same time still holding some claim on the play. Red Star is headed by Ben and Sam Moosechekian, who came to the United States with their parents about 35 years ago. Main operations of the Moosechekian brothers have been centered in Orange County. Currently, they are busy at West Newport. The property there was leased from George C. Atha, a producer, geologist and engineer, who pioneered the area. Further down the south coast toward San Clemente, everything appears in order for additional testing of the O'Neill Estate property, where The Texas Company in late weeks found a small yield of 45 gravity crude oil. Texaco brought an entirely new province to light and more drilling may uncover an accumulation of substance. Shell owns an interest in the play along with The Texas Company.

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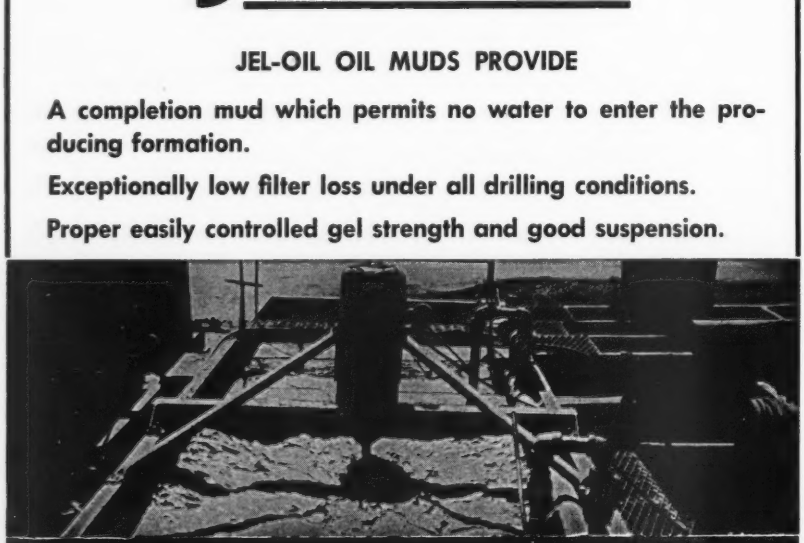

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Bidding Fails For Palm Springs Leases

Evidently swayed by a duster drilled 10 miles east of Palm Springs, oil companies passed up a chance to bid on Agua Caliente Indian reservation land offer at public auction. Six separate tracts in the Palm Springs area are on Sections 4, 12, 14, 22, 24, and 26. The abandoned well was The Texas Company's Stone NCT-1 No. 1 wildcat on Section 35-3s-5e, Riverside County.

Wilmington Well Puts Out 125 Bbls.

Lincoln Petroleum Company's Hayes No. 3 on Section 32-4s-13w in the Wilmington field is in from 3545 feet for 125 barrels of 14.2 gravity oil a day. Taken in were the Tar, Ranger and Terminal oil sand zones. Holmes Drilling Company was the contractor. Engineering was handled by Al Hunter. An application of Atlantic Oil Company to set up an oil drilling district in Wilmington has been approved by the Los Angeles City Planning Commission. The property is bounded by Lomita Boulevard, Endora Avenue, Q Street and Figueroa Street.

Castaic Wildcat Goes Off The Board

Following sidewall sampling and a check with electric log, Gene Reid Drilling, Inc., abandoned General

American No. 81-13 wildcat well on Section 13-5n-17w in the Castaic area. In the Castaic Junction field, Humble Oil & Refining Company is busy with three wells at various stages on its Newhall Land & Farming Company lease.

Bandini Project Drilling Steadily

No great distance from the intersection of Sheila Street and O'Neill Avenue in the Bandini sector of East Los Angeles, General Exploration Company's CCMO No. 5 continues to drill ahead below 5000 feet. This drilling job follows the successful completion of the company's CCMO No. 4 well, completed for 253 barrels of 40.3 gravity clean oil and 343,000 cubic feet of gas daily. Total depth is 5585 feet, with 7-inch casing cemented at 5432 feet above the Nordstrom sand. The contract work is in charge of Brown Drilling Company of Long Beach.

Sansinena Well Now On Production

T. F. Vandar Laan's No. 2 test on Section 30-2s-10w in the vicinity of the Sansinena field has been completed at 2690 feet and last was credited with an output of 50 barrels of 24 gravity oil a day. Terminal Drilling Company did the drilling.

Airport Well Flow Sustained

Flow from The Texas Company's Airport NCT No. 1 well at North Long Beach continues at a rate of 398 barrels of 30 gravity oil and 284,000 cubic feet of gas a day. A 16/64-inch bean is in use. The well, situated on Section 20-4s-1w or about one-half mile northeast of Long Beach field wells, was recently completed at a plugged depth of 8307 feet, after going to a total bottom of 9272 feet. Previously, Texaco drilled and completed its first well on the Long Beach Airport property at a plugged depth of 9300 feet for something not much more than 100 barrels of 32 gravity oil a day. Total bottom was 13,107 feet. The producers are on a 1000-acre lease within a hop, skip and a jump from where Cherry Avenue and Karlow Street cross one another.

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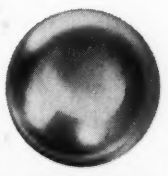
Made of corrosion-resistant titanium carbide, ⅓ lighter than steel. Minimizes down-well check valve trouble caused by ball flutter, cage wear, and fluid pounding.



KENNAMETAL®
PUTS AN END TO DOWN-THE-HOLE CHECK VALVE TROUBLE

North La Habra Wildcat Digging

On a 250-acre community lease at North La Habra, the Erin Oil Company continues to drill ahead well below 6200 feet with its scheduled 9000-foot test on Section 5-3s-10w. The project is named Freedman-North La Habra No. 1 and is drilling under the guidance of Petrie Drilling Company near Whittier Boulevard and Cypress Street.

Honor Ranch Well Only Small Producer

Commercial yield appears to have eluded The Texas Company's Honor Rancho A NCT-2 No. 10 well in the Honor Rancho field of Los County. The well, on projected Section 6-4n-16w, went first to 7000 feet before it was redrilled to 3860 feet and completed for 9 barrels of 31.7 gravity oil a day and but little gas. A later report set production at 4 barrels daily.

Long Beach Well Completed

Ted Jones Drilling Company's Juan No. 1, a new well on Section 24-4s-13w in the Long Beach field, was last reported good for about 50 barrels of 22 gravity oil a day from a total depth of 4357 feet. On Section 19-4s-12w, Davis Investment Company is drilling at 3400 feet with Higby No. 1 well.

Five Dagany Gap Wells All Produce

A quintet of wells were drilled and all five completed as successful producers from the Eocene formation at Dagany Gap in Kern County. With the recent completion of West No. 2 on Section 3-25s-18e, the Gilliland Oil Company and H. F. Ahmanson established that enviable and profit-making record. West No. 2, an extension test, came in from a plugged bottom of 1875 feet flowing 115 barrels of 30.6 gravity oil, through a 15/64-inch choke, along with 300,000 cubic feet of gas a day. Casing was set at 1625 feet and evidently about 250 feet of zone was taken in. The preceding four wells have been producers of comparable

output, but the newest well flows, while the others are more disposed to both pump and give up naturally. The combination is preparing to take down two additional tests in the area, Barker No. 1 and No. 2. Meantime, oil and gas pipeline connections are being built to carry the production developed by Gilliland and Ahmanson.

Alferitz Anticline Wildcat Drills Ahead

In the southeast Alferitz Anticline area, Hancock Oil Company's Hancock-MJM & M-CCMO No. 34-24 wildcat test on Section 24-25s-18e is not many hundred feet above objective depth around 5000 feet. Location is a couple of miles south and east of Carlton Beal & Associates' Kalloch No. 56-11 discovery well.

Carrizo Plains Wildcat Drilling

In the Carrizo Plains area of San Luis Obispo County, where more than a half-hundred wildcat wells through the years have met defeat from a production standpoint, Shell Oil Company is under way with a new test on Section 22-30s-19e or some four miles southeast of the town of Simmler. The well, Smith No. 32-22, is on the expansive S. F. Smith property and south of a dry hole taken down two years ago by Shell to unproductive depth slightly below 4300 ft. on the Twisselman land. Shell's exploration in the area during past years has not been entirely devoid of encouragement. In fact, the company probably did more than anyone else to date by bringing to the surface high gravity oil from a depth approximating 8000 feet with a well drilled a few years ago on the McDonald estate west of Simmler townsite. Efforts to make the earlier wildcat perform in commercial fashion proved vain, due to what appeared as extremely tight sand. Seaboard Oil Company's Government No. 34-4 explorer on Section 4-30s-20e in San Luis Obispo County is digging away at 2000 feet or thereabouts. Intex Oil Company's Sauret No. 1 on Section 25-26s-11e is still idle at 1756 feet.

Mount Poso Test Abandoned

A depth of 2045 feet wrote the end of Federal Oil Company's Vedder No. 1 test well on Section 20-27s-28e near Mount Poso. The Vedder, topped at 2027 feet, lacked the capacity to yield oil.

Allenworth Test Drilling Steady

Near Allensworth in Tulare County, Geochemical Surveys is making good time with the drill below 1500 feet with its Bendetti No. 1 wildcat well on Section 10-24s-24e. Word from the field indicates that the wildcat might be taken down to 7000 feet or more for a thorough and complete test at that location. Location is about two miles west of a dry hole drilled to 9465 feet by Ohio Oil Company some months ago on the Phillips property. At Deer Creek, the Lawrence P. Reischman, Operator, Henderson No. 1 on Section 33-27s-27e faded out of the production picture at 691 feet as a duster. Verde Oil Company's Janis No. 1 on Section 34-22s-27e at Deer Creek is idle at 1380 feet.

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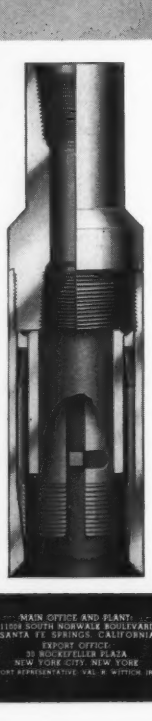

Husky over-all construction and simple operation make Crown Slip Type Bowen Releasing and Circulating Sockets the fishing tools to use wherever it is possible to engage a fish externally. Through the installation of proper undersize parts, Bowen Sockets can be adapted to engage and pack off any smaller sizes. Their presence in the string insures the operator of the ability to engage and pull on the fish and to release from the fish at will. Their sturdy design enables them to withstand all pulling, torsional and jarring strains.

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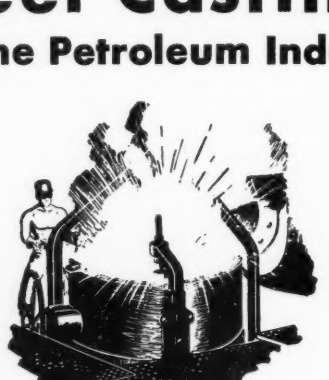

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Kern Bluff Well Started

Milt Barratt and Ernie Bysshe have set in motion a brace of new Kern County drilling jobs. They are Sunray-Zimmer No. 1-21 on Section 12-29s-28e, southwest of Kern Bluff production, and Porter No. 72A-20 on Section 20-30s-29e in the West Edison area. The former will drill to about 1300 feet, and the latter around 4100 feet.

Bankline Lists New Midway Drilling Job

Bankline Oil Company has just started another well on its Metson lease in the Midway field. Listed as Metson No. 8-24, the now well is on Section 24-11n-23w. Several wells already completed on the lease have shown increased yield due to installation of heaters in stimulating output of low gravity crude oil. Hot oil circles through an unopened passage in the wells, with none of this oil permitted to break away into formations producing.

Cuyama Valley Still Developing

Richfield Oil Corporation's latest well to begin drilling in Cuyama Valley is Heller No. 88-27 test on Section 27-10n-27w. The company's Cox No. 84-5 wildcat on Section 5-9n-26w is redrilling at 5600 feet. The project was carried originally to 8208 feet and then was plugged back to 5001 feet for a fresh start. In the Morales field in the valley, Margaret V. Kahler is drilling in the relatively shallow formations with M. V. Kahler No. 5 on Section 10-11n-28w. Tom Fitzgerald is handling the engineering. Some months ago Miss Kahler acquired holdings of the Hancock-Oceanic-Mohawk combination on Section 10, and also interests of Bishop Oil Company in the same sector. Production is from the Clayton pool, which also is giving out for some Southern California Petroleum Corporation wells, in addition to the Kahler cluster of producers.

On a 3000-acre block, in which Intex Oil Company also shares interest, Humble Oil's Humble-Intex-Lerdo land No. 1 wildcat north of the Fruitvale field is drilling under 4200 feet. A test of the co-equal of the Kernco zone between 3300 and 3400 feet evidently failed to show much in the way of petroleum. At any rate, the project is likely to explore to 8000 feet or so to ascertain what of interest may lie in the lower formations.

Tejon Ranch Test Drilling

Continuing development in the Tejon Ranch area of Kern County, Reserve Oil & Gas Company and Edwin W. Pauley's Reserve-Pauley No. 41-34 test on Section 34-11n-19w is digging at 4000 feet. The combination the other week completed a second well in the Olcese sand for a flow of 350 barrels of oil a day from the interval of 5636-5715 feet, with an 18/64-inch choke in use. The project penetrated the Olcese sand measure and drilled on down to a depth of 6770 feet in basalt. The well was then plugged back to 5779 ft. for the final touch. The discovery well was of comparable significance. Four miles north of the Tejon Hills field, General Petroleum's SP-Tejon No. 16-3 wildcat on Section 3-11n-19w at Sand Hills was last reported drilling under 9000 feet. The company controls approximately 5000 acres of land in the area which is no great distance from a 15,100-foot wildcat taken down by Western Gulf some years ago to an unproductive termination. In the Tejon Flats area, Union Oil's Reserve-Hay No. 11-24 wildcat on Section 24-11n-19w has reached 3000 feet and is going on down steadily.

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The engineers and field service men of the Oil Field Division of AMERICAN PIPE & STEEL CORPORATION confine their activities exclusively to California. This intensive concentration over many years ensures thorough familiarity with the needs and problems faced by California oil producers. This is why we are able to cooperate so effectively with our customers in recommending the right equipment to use for each and all well head operations.

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Ciervo Wildcat Placed on Pump

Pumping initially 15 barrels of 40 gravity crude oil a day, Harry L. Barnett has completed his Ashurst No. 1 wildcat test on Section 27-16s-11e in the Ciervo area, San Benito County. The W. W. Holmes, Operator, next drilling job will be Standard-McCray No. 1 test on Section 25-16s-11e in Griswold Hills. In Griswold Canyon, Strata Oil Company's Strata No. 1 on Section 19-16s-11e is being cleaned out. Total depth is 995 feet.

Burrel Wildcat Gets In Motion

The Transcal Drilling et al, Richardson-Burrel No. 72-34 wildcat venture on Section 34-16s-18e near Burrel in Fresno County is on the way to fortune or production failure. Conclusion one way or another is the prerogative of the drill. This is a contract job with Casey & Montgomery doing the chores.

Cymric Well On Production

Superior Oil Company's new Cymric Unit No. 2 well on Section 22-29s-21e in the Cymric area is

on production from the approximate Point of Rocks interval of 6511-6571 feet for several hundred barrels of 27.8 gravity oil a day from a total depth of 6621 feet. In the Temblor Vista area, Superior's Anderson No. C-1 on Section 25-29s-20e has been abandoned at 2519 feet.

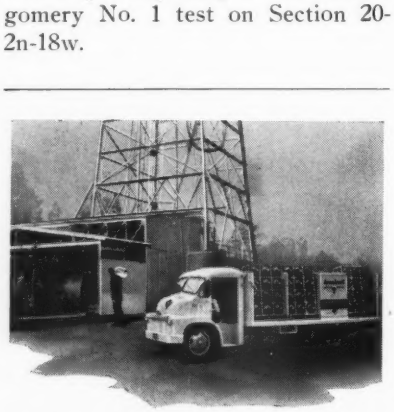
Oxnard Deep Play Gaining Momentum

The latest wildcat venture to kick off in the Oxnard area of Ventura County is Victory Oil Company's Bonlon No. 1 on Section 24-2n-22w in the northeast sector.

Standard's new well, McInnes No. 2 on Section 31-2n-21w, certainly let no one down. The well currently is flowing close to 1000 barrels of 30 gravity oil a day along with considerable gas and points the way to greater development in the area. During repairs on cellar facilities several days after completion, the well staged a blowout which was controlled in short order by pumping heavy mud down tubing through a connection on the Christmas tree and temporarily shutting off oil and gas. Before returning the well to production new wellhead equipment was installed. The play is on a lease owned by Mrs. Blanche McInnes and her twin sons, Thomas F., an Oakland insurance company executive, and Robert A., widely known Los Angeles advertising and public relations expert, and their wives. The well is bottomed at 9401 feet. In the Fillmore area, Standard's Sespe Ranch No. 2 on projected Section 34-4n-20w, an extension test of its discovery last April on Section 27-4n-20w, is drilling ahead steadily below 6000 feet. The play roughly is four or five miles west of the town of Fillmore and near the mouth of Lord's Creek. Speaking of Fillmore, oil men will soon travel easier in that part of Ventura County. Two new steel and concrete spans are being built over the mouth of Sespe Creek where it joins the Santa Clara River. It will replace the narrow bridge just west of Fillmore, which when built 40 years ago was the longest single span on the Pacific Coast. For some years it has been nothing more than a bottleneck to motor traffic on a through highway.

Simi Wildcat Set In Motion

Under way on Section 7-2n-17w in Ventura County's Simi area is Brandies No. 1 wildcat venture undertaken by C. A Palmer, Trustee, North Hollywood. South of Simi, International Petroleum Consultants, Ltd., Operator, is drilling in the primary stages with Montgomery No. 1 test on Section 20-2n-18w.



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Packer Island Test Drilling

Approximately four miles northeast of the Princeton field, opened up last year by Richard S. Rheem as operator, the same interests are drilling at 1000 feet with Packer Island No. 1 gas test on Section 6-18n-1w, Glenn County. Location is on the Larkins Children Rancho property, two miles southwest of Butte City. It is also about three miles south of the Beehive Bend gas field, discovered some months ago by Sunray Oil Corporation. North of Willows, Humble Oil's H. C. Fredericksen No. 1 on Section 16-20n-3w is moving ahead with the drill above objective level.

Petrolia Project Drilling On Down

West Coast Oil Corporation is carrying its West Coast No. 1 wildcat on Section 21-2s-2w at Petrolia in Humboldt County on down to deeper formations from 1845 feet, a point at which work was recently resumed.

Galt Wildcat Keeps Drilling

Artnell Oil & Gas Company's Freeman No. 1 test on Section 7-4n-7e in the vicinity of the Galt field in San Joaquin County is digging near 100 feet. The company's Gussendorf No. 1 test on the section has been shut in at 2810 feet, after flowing at the rate of 4,000,000 cubic feet of gas daily.

Kirby Hills Test Working

North of the Kirby Hills in Solano County, Shell Oil Company has spudded-in and is drilling ahead with its McCormick No. 1 wildcat on Section 1-4n-1w. Contractor is Miller & York. Arcady Oil Company's Fahn No. 1 test on Section 9-5n-3e at Liberty Cut at present is evidently undergoing trials.

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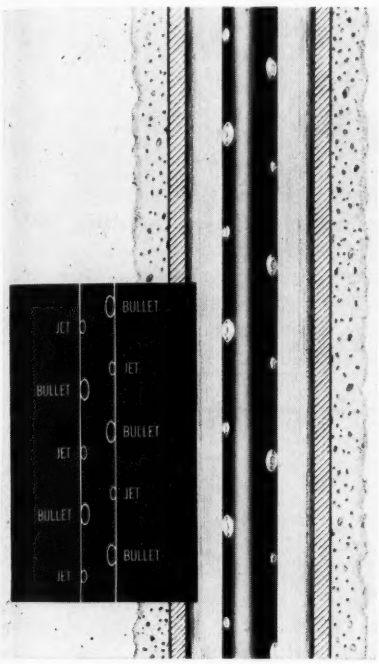
New Combination Jet and Bullet Gun

Just announced by BJ Service Inc., of 6505 Paramount Boulevard, in Long Beach, California, is a new combination jet and bullet gun.



The company states that the new combination gun offers operators a 50% saving of rig time, assures a uniform shot pattern and provides both the superior performance of jet perforation and penetration with the economy of bullet perforation.

BJ's new combination gun is loaded alternately with jet and bullet perforators and contains four charges per foot. All charges are detonated at the same instant with a single strand of Primacrod. Shot phasing is 120°. This instant and simultaneous detonation is said to assure a perfect shot pattern throughout the producing interval.

BJ's new combination gun is loaded alternately with jet and FF-4 bullet chambers in the same carrier.

Operators desiring more information may obtain complete details by contacting their nearest BJ Service, Inc., field office or writing direct to BJ Service, Inc., 6505 Paramount Blvd., Long Beach, Calif.

New Catalogs Issued By B. S. & B.

Black, Sivalls & Bryson, Inc., announces the publication of three new catalogs covering their COLD-FRAC line of low temperature separation equipment.

Catalog 33-01 includes complete information on the COLD-FRAC without Hydrate Inhibitor—12 pages on BS&B's "conventional" system of low temperature separation.

The ECON-O-MAX, for economical application of low temperature separation to small gas-condensate wells, is presented in Catalog 33-01A.

BS&B's popular COLD-FRAC with Hydrate Inhibitor (Glycol Injection System) — which features maximum condensate recovery, a stock tank liquid with controlled stability, and dehydrated gas—is described in the 20-page Catalog 33-02.

The catalogs are all prepared in non-technical language and arranged for easy use. They include color flow diagrams, installation photos, case histories, and charts, and graphs to assist in working out recovery problems.

Catalogs are available upon request from Black, Sivalls & Bryson, Inc., Product Information Department, 7500 E. 12th Street, Kansas City 26, Missouri.

Kennametal Inc., Latrobe, Pa., has appointed Ketchum, MacLeod & Grove, Inc., Pittsburgh, to handle its advertising and public relations, starting July 1. Kennametal is the world's largest manufacturer whose facilities are devoted exclusively to the production of cemented carbide tooling for the metalworking, mining, petroleum, woodworking and other industries.

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GOTKOOL Water Cans and Water Coolers are still and will always be available with the extended type faucet. When purchasing GOTKOOL Water Cans with faucets and Water Coolers from your favorite supply store, specify whether they are to be equipped with extended or recessed faucets.

Whittier Test Moving On Down

Union Oil Company's Union-Puente Farms No. 1 wildcat well on Section 15-2s-11w near Whittier is drilling steadily ahead under 1000 feet. In the Whittier field, Pacific Lighting & Gas Supply Company has started Hornby No. 2 on Section 25-2s-11w.

THIS LAUGH

OFF!!

The average girl needs more beauty than brains because the average man can see better than he can think.

A small boy is something that stands half way between an adult and a television screen.

"Your feet are cold," he complained to his little bride, "keep them on your own side of the bed."

She began to sob. "You're cruel," she cried, "you never used to say that to me before we were married!"

The butcher, the baker, the candlestickmaker: Why the heck can't I?

Three college boys upon entering their favorite juke-joint to sit at their usual table found it occupied by an oldish woman. Upon debating what to do about the situation, they finally decided to embarrass the woman into leaving.

Sitting next to the old lady, the first student proceeded, "Say John, did you know that I was born three months after my parents were married?"

"What? Why, that's nothing," said the next one, "I was born six months before my parents were married."

"Fellows," replied the last of the hungry men, "I was born without my parents ever being married."

The old lady finally looked up from the table and pleasantly said, "Will one of you bastards please pass the salt?"

A cat was seen running wildly down alleys, up fire escapes, down cellars and what not. A neighbor knew whose cat it was and reported it. "Your cat is running around like mad."

"Yes, I know," came the reply. "He's just been sterilized and he's rushing around canceling engagements!"

"American gentlemen are very poor lovers," said the little French lady sadly, with a kind of **fin de siecle** weariness hovering over her eyes. "They always want the entree before the hors d'oeuvres."

THE CAVINS DUMP BOTTOM...

is the tool you need for dumping any amount of cement, sand, gravel, acid, or chemical, etc., in a continuous operation without interruption. The full open throat eliminates the hazard of stringing a load through the fluid column. There are no valves, sleeves, or ports to become fouled or clogged—no danger of accidental or premature unloading due to line whip or faulty brakes.

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